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PROGRESS REPORT

ON

FOREST ADMINISTRATION

IN

LOWER BURMA

FOR

1891-92.

BY MAJOR C. T. BINGHAM AND P. J. CARTER, ESQ.,
CONSERVATORS OF FORESTS.

WITH A REVIEW BY THE CHIEF COMMISSIONER AND THE ORDERS OF THE GOVERNMENT OF INDIA.

RANGOON:

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No. 73 F., dated Calcutta, the 19th January 1893.

From—SIR E. C. BUCK, KT., C.S.I., *Secretary to the Government of India,*
To—*The Chief Commissioner of Burma.*

I AM directed to acknowledge the receipt of Mr. Kynoch's letters Nos. 357—2R.-7 and 359—2R.-10, both dated the 18th August last, forwarding the Progress Reports on Forest Administration in Lower and Upper Burma for the year 1891-92, together with your Resolutions thereon.

2. The area of reserved forests has been increased by 1,036 square miles, and at the end of 1891-92 amounted to 6,100* square miles, being only 4 per cent. of the total area of the Province.

* Excluding Karen areas.

3. In Upper Burma, however, the work of forest-settlement has only now been fairly started; it resulted in the highly creditable addition of 1,024 square miles during the year. Very extensive forest areas, aggregating upwards of 16,000 square miles, have been examined during recent years and, with a view to final reservation, have been placed under the intermediate protection of Chapter II of the Forest Regulation. And a considerable portion of this area, amounting to 2,189 square miles, has already been notified as a preliminary step to a regular settlement; while over 587 square miles, previously notified, the settlement operations have been completed and are awaiting the final orders of the Local Government. The Governor General in Council has observed with pleasure the large amount of forest-settlement work disposed of by local officers, and is gratified to learn that, in view to push on the work, you propose to maintain an additional staff of Forest Settlement Officers during the open season. A systematic forest administration can only be built up on the sound foundation of a permanent and final settlement of the property, which leaves no room for individual differences of opinion and permits officers to devote their whole energy and time to the technical administration of the State-forests. These advantages seem to be fully recognized in Burma.

4. The original reservation in Lower Burma was guided by the wish to secure as State-forests the more important teak-producing areas. This work had been more or less completed in previous years, but the recent development of a trade in other forest-species, and the necessity of providing a more permanent supply of wood for the important cutch industry, have apparently forced on the local administration the conclusion that the reserved forest area should be considerably augmented. The Government of India are pleased to observe that, though the area actually added during the year is insignificant, the question has, since the necessity of the step has been recognized, been approached in a thorough and business-like manner.

5. A special feature in the forest-settlements of Burma is the enclosure within the reserves of Karen areas, in which special rights, including that of temporary cultivation, are conceded to the original taungya-cutting inhabitants of the forest areas, but from which all new settlers are strictly excluded. This system was first experimentally introduced during the settlement of the Thonzé forest in Lower Burma in 1877, and seems to have been adhered to in subsequent settlements. It may, therefore, be presumed to have answered the purposes for which it was designed; but the Government of India will be glad if the opinions of the local administration on this point can be recorded in the Reports for the current year.

The Karen areas constituted up to the end of the year under review amounted to 574 square miles, or upwards of 9 per cent. of the area of reserved forests.

6. The demarcation of forest-reserves has received satisfactory attention, and considerable progress has been made in their topographical survey.

7. The examination of the forests from a professional point of view, as regards their composition, rate of growth and other natural features, embracing where necessary concomitant valuation-surveys, and the careful and detailed record of such observations, compose the ground-work of a sound technical management. Work of this kind should never cease in forests under professional administration, and is indispensable in the vast and valuable, but even yet partially known, State-forests in Burma. It is satisfactory that considerable attention has been paid to these questions in the Pegu and Upper Burma Circles, but the subject seems to have been somewhat neglected in the Tenasserim Circle. The Government of India would be glad if you would impress on Conservators that such examination and detailed record of observations is considered to form an important part of the duties of every Divisional Officer, Extra-Assistant Conservator and trained Ranger. It was with this special object that the maintenance of a Forest Journal for each forest-unit or administrative charge was prescribed.

The progress made in the preparation of Working-Plans and Plans of Operations has been steady, and it is observed that the plans have on the whole been well adhered to.

8. The number of forest-offences has increased in every Circle, but is as yet unimportant in comparison with the large forest area under protection.

9. The fines inflicted on persons convicted of having caused fires in reserved forests were doubtless inadequate, and the Government of India are glad to observe that this matter has attracted your attention. Though fire-protection was unusually successful during the dry season of 1892, it is surrounded in Burma by exceptional difficulties, and all efforts to extend it merit the cordial support of the district administration. In the Pegu Circle the successful results obtained are attributed to the notices issued under your direction by the District Officers. The Government of India trust that a steady continuance of this wise policy will cause a gradual reform in fire-conservancy, though it is by no means to be expected that the inhabitants of Burma should all at once change their habits.

10. The inspection of the areas burnt in the dry season of 1891 showed that, though some planted areas had been disastrously damaged, the young teak trees were rarely destroyed, and the injury was in most cases such as the trees would outgrow in a year or two. This power of resistance of the teak tree is no doubt satisfactory, in view of the fire-exposed condition of most Burma teak forests, and in fact accounts for their very existence under such adverse circumstances; but it is no excuse, in the opinion of the Government of India, for the deliberate withdrawal from fire-protection of 217 acres of plantations which is reported in paragraph 15 of the Report of the Tenasserim Circle. This area seems to have been abandoned without sanction and a full explanation should be called for.

11. The remarks on unaided natural reproduction are generally extremely brief, and I am to suggest that the effect of fire-protection—which has now been continued for a considerable number of years in some of the reserves—on reproduction and the general forest-growth should be studied and noticed in the next Report. In so far, however, as the observations refer to the flowering of bamboos, the reports of the Upper Burma and Pegu Circles have a peculiar interest and importance; for the fact that the reproduction of teak in Burma

takes place generally during the periodical flowerings of bamboo, which had been accepted on inference and a study of age-classes, has now been further verified by observations made during the flowering of *Dendrocalamus Hamiltonii*; and a more general flowering of the larger bamboos will give the Burma foresters the opportunity of assisting nature by introducing a larger percentage of teak into the composition of the natural forest. It is hardly to be expected that much can be effected in the scarcely settled forests of Upper Burma; but the operations now being carried on in the Kôn Bilin reserve, in areas on which the *Tinwa* (*Cephalostachyum pergracile*) has flowered, indicate that the forest establishment of the Pegu Circle are alive to the importance of the question. A careful record should be kept of each operation, including a description of the state of the forest at the time the work was begun.

12. The 3,206 acres which were added during the year to the area of taungya plantations include 25 acres in the Tenasserim Circle, with a density of less than 0·3, and 28 acres in the Pegu Circle, with a density of 0·4. These areas should at once have been excluded as failures. Apart from them the progress made in the Tenasserim Circle amounts to 1,479 acres, with an average density of 0·62, and in the Pegu Circle to 1,674 acres, with an average density of 0·72, which is a satisfactory result of the year's work.

A remark made in paragraph 23 of the Pegu Circle Report proves that weeding operations may cause great damage in case of a fire. It would be interesting to know during what season the plantation in which the damage occurred was weeded.

13. Considerable attention was paid in the Pegu Circle to the improvement of the natural forest by the removal of dominant overgrowth and creepers. On a smaller scale similar work was carried on in the Upper Burma Circle, but again no such measures seem to have been attempted in the Tenasserim Circle, though the Government of India drew special attention to this point in paragraph 9 of their review of the Report for 1890-91.

14. The experiments made regarding the introduction of exotics are interesting, but it seems that, with the exception perhaps of *Hevea Braziliensis*, none of the species as yet tried will ever become of economic importance.

15. The outturn during the year of forest-produce is shown in the following table:—

Class of Forest, and Agency by which removed.	Timber.			Fuel.			Bamboos.			Other minor produce.		
	Lower Burma.	Upper Burma.	Total.	Lower Burma.	Upper Burma.	Total.	Lower Burma.	Upper Burma	Total.	Lower Burma.	Upper Burma.	Total.
Reserved.	c. ft.	c. ft.	c. ft.	c ft.	c. ft.	c. ft.	No.	No.	No.	R	R	R
Government . . .	1,229,780		1,229,780	.	...	.				.		
Purchasers . . .	461,318	1,463,665	1,924,983	282,200	...	282,200	2,496,120			36,460		
Right-holders . .	24,260	...	24,260	..	48,800	48,800	26,375			147		
Free-grants . . .	..	.	..	...	...	...				..		
Total .	1,715,358	1,463,665	3,179,023	282,200	48,800	331,000	2,515,025			36,607		
Protected.												
Government . . .	...	256,843	256,843	...	.	...	...			...		
Purchasers . . .	...	5,462,627	5,462,627	...	1,457,798	1,457,798	...			...		
Right-holders . .	..			...	...	...	...			...		
Free-grants . . .	...	169,350	169,350	...	...	...	...			..		
Total .	...	5,888,820	5,888,820	.	1,457,798	1,457,798				...		
Unclassed.												
Government . . .	1,475,732	...	1,475,732	..	..		...					
Purchasers . . .	8,510,928	...	8,510,928	2,519,834	.	2,519,834	3,428,878			14,843		
Right-holders . .	52,253	...	52,253	..	...	.	..			...		
Free-grants . . .	18,823	..	18,823	...	..	.	..			...		
Total .	10,057,736	..	10,057,736	2,519,834	.	2,519,834	3,428,878			14,843		
GRAND TOTAL in 1891-92	11,773,094	7,352,485	19,125,579	2,802,034	1,506,598	4,308,632	*5,951,373	‡11,845,936	17,797,309	51,450	2,37,287	2,88,737
" " " 1890-91	8,921,630	9,003,888	17,925,518	4,062,200	1,740,058	5,802,258	†2,445,555	§14,882,376	17,327,931	71,127	1,97,107	2,68,234
Difference in 1891-92 .	+2,851,464	−1,651,403	+1,200,061	−1,260,166	−233,460	−1,513,626	+3,505,818	−3,036,440	+469,378	−19,677	+40,180	+20,503

Value	*R15,282	‡+R27,884	=R43,166
"	†R 5,619	§+R32,296	=R37,915
Difference in 1891-92 .	+R9,663	−R4,412	+R5,251

The most remarkable feature of the year's transactions was the large increase which took place in the extraction of other species than teak; this is accounted for partly by greater activity in canoe and boat building, and partly by the constantly increasing demand for railway sleepers and shingles of pyinkado and pyinma. The principal items of minor forest-produce extracted from the Burma forests are cutch and rubber. The income derived from the former amounted to R1,48,698, and from the latter to R1,18,343.

16. The financial results of the year, as compared with those of 1890-91 as well as with the average of the last five years, are shown in the following table:—

Circle.	Receipts.	Charges.	Surplus.	Proportion of Surplus to gross Revenue.
	R	R	R	Per cent.
Pegu	22,07,514	9,20,826	12,86,688	58
Tenasserim	6,50,600	3,48,913	3,01,687	46
Upper Burma . . .	13,27,300	3,73,859	9,53,441	72
Total in 1891-92 . . .	41,85,414	16,43,598	25,41,816	61
Total in 1890-91 . . .	43,21,968	13,88,789	29,33,179	68
Difference in 1891-92 . .	—1,36,554	+2,54,809	—3,91,363	—7
Average for the five years ending 1890-91 . . .	36,14,900	14,48,874	21,66,026	60

The drop in the revenue was entirely due to an unfavourable floating season in Upper Burma, and would have been severer but for a slight rise in the price of teak and other circumstances which combined to maintain a fair revenue.

17. His Excellency the Governor General in Council directs me to congratulate you on the successful administration of your forests, and to say that he endorses your commendation of the ability and tact with which Mr. Oliver has conducted the forest business in Upper Burma, and of the good work done by the Conservators of the Pegu and Tenasserim Circles.

APPENDIX SHOWING THE DISCREPANCIES NOTICED IN THE LOWER BURMA FOREST ADMINISTRATION REPORT FOR 1891-92.

TENASSERIM CIRCLE.

Para. 23 of Report (Statement).—The figures 645, in the column "Number of plants raised per acre" against "Total, Salween-Attaran Division," should apparently be 644. Similarly the figures 660 immediately below should apparently be 655.

Para. 44 of Report (3rd clause).—As compared with the corresponding figures of 1890-91 there was an increase of upwards of 9,000, not 8,000 as here stated, in the number of logs of unreserved woods extracted by purchasers in 1891-92.

Form No. 50 (Breaches of Forest Rules).—The column "Cases pending from 1890-91" is blank, whereas, according to the similar return for that year, there was one case for composition pending at the close of the year.

PEGU CIRCLE.

Para. 11 of Report (Statement).—The addition of the detailed figures under "Actual cost of permanent establishment in 1891-92," gives a total R75,461, and not R74,461.

Para. 50 of Report (Statement).—According to the figures entered in columns 1 to 7, there were 433, and not 803, logs of drift timber in hand at the close of the year. The error is due to the fact that a balance of 89 logs is shown against "Agency," whereas there was no balance over, but on the other hand a deficit of 287 logs at the close of the year.

Paras. 60, 61, 63 and 64 of Report and Form No. 62 (Financial Results).—The "Grand Total of Expenditure," and the "Surplus" of the year are here given as R9,20,587 and R12,86, 927, respectively; whereas, according to Form No. 58, the figures should be R9,20,826 and R12,86,688.

Para. 62 of Report (clause 1).—As compared with the corresponding figures of 1890-91, the amount expended on extraction of timber departmentally was R1,77,589, not R1,77,397, more in 1891-92, the result in favour of the year 1891-92 being R1,04,016, and not R1,04,208.

Para. 62 of Report (clause 3).—As compared with the corresponding figures of 1890-91, the expenditure on demarcation and improvement was R33,491, and not R33,444, more in 1891-92.

Form No. 54 (Outturn of Timber and Fuel).—The value of timber removed by right-holders from reserved forests has not been taken into calculation in the last column of the form; consequently the figures purporting to represent in c. ft. the total outturn from reserved forests and forests of all descriptions are incorrect. These figures should be 1,683,916 and 12,114,219 respectively, instead of 1,680,756 and 12,111,059.

Form No. 55 (Outturn of Minor Produce).—The value of the minor produce (R212) removed by right-holders should have been shown in the "Summary" of this form.

CHIEF COMMISSIONER'S RESOLUTION.

Para. 2 and para. 10 (Statement).—According to the figures given in Form No. 54, the quantity of timber extracted in 1891-92 from the forests in Lower Burma (excluding wood extracted for fuel) was 235,462, and not 235,328, tons.

Para. 14 (Statement).—According to the figures given in Appendix C, the quantity of teak exported from Rangoon during 1891-92 was 99,636, and not 99,647, tons, and the value thereof was R75,12,713, and not R75,13,397.

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TABLE OF CONTENTS.

RESOLUTION BY THE CHIEF COMMISSIONER.

	Para.	Page.
Progress of forest work in Lower Burma	1	1
General remarks	2	ib.
Reservation of forests	3	ib.
Forest surveys	4	2
Working plans	5	ib.
Offences against forest rules	6	ib.
Fire-protection	7	3
Re-production and improvement of forest growth	8	ib.
Girdling operations	9	4
Timber worked out of the forests	10	ib.
Quantity of teak timber extracted	11	5
Minor forest produce, firewood, and charcoal	12	ib.
Revenue and expenditure	13	6
Imports and exports of teak	14	7
Services of officers	15	ib.

TENASSERIM CIRCLE.

CHAPTER I.

AREA AND BOUNDARIES.

1.—Area.

	Para.	Page.
No increase to reserved forests	1	1
Reservation of proposed five padauk tracts still pending	2	ib.
Proposals for extension of the Mepalè and Kamaukala reserves, Salween-Attaran division ...	3	ib.

2.—Boundaries.

Revision of divisional charge	4	1
Inspection of boundaries and repairs	5	ib.

CHAPTER II.

SURVEYS, WORKING PLANS, AND ANNUAL PLANS OF OPERATIONS.

1.—Surveys and Exploration of Forests.

Forest survey in the Taungyin reserves, Salween-Attaran division	6	2
Topographical maps of the southern portion of the Mergui district received	7	ib.
Exploration of the Kanyin forests in Mergui	8	ib.

2.—Working Plans.

Existing working plans adhered to	9	2

3.—Annual Plan of Operations.

Annual plan of operations	10	2

CHAPTER III.

PROTECTION AND IMPROVEMENT.

1.—Establishments.

Distribution and cost of permanent and temporary establishment	11	2

2.—General Protection and Breaches of Forest Laws.

Prosecutions for breaches of forest laws	12	3

3.—Fire-protection.

General results of fire-protection	13	3
Fire-protection in the West Salween division	14	ib.
Fire-protection in the Salween-Attaran division	15	ib.
Area of forest and plantations burnt	16	ib.
Inspection and plantations burnt in 1891	17	4
Fire-record maps	18	ib.
Areas not specially protected that have escaped fire	19	ib.

4.—Grazing.

Grazing	20	4

5.—Natural Re-production.

Natural re-production of teak	21	4
Natural re-production of the *Pinus Khasya*	22	ib.

6.—Artificial Re-production.

	Para.	Page.
Teak taungyas. General results	23	4
Teak taungyas	24	5
Results of teak taungya planting	25	ib.

7.—Cutting Creepers, Weeding, and Thinnings.

Weeding teak taungyas	26	5
Weeding of teak taungyas, West Salween division	27	6
Weeding of teak taungyas in the Salween-Attaran division	28	ib.

8.—Experiments and Exotics.

Mahogany	29	6
Mergui experimental gardens. Departmental experiments. Para rubber	30	ib.
Castillao elastica	31	ib.
Manihot glaziovii. Ficus macrophylla	32	7
Other plants cultivated	33	ib.
Expenditure during the year	34	ib.
Experimental cultivation undertaken with provincial grant	35	ib.

9.—Communications and Buildings.

Improvement of river communication	36	7
Cost of buildings in circle	37	ib.

CHAPTER IV.

Yield and Working.

1.—Departmental Operations.

Departmental extraction of teak timber	38	8
Departmental extraction of timber other than teak	39	ib.
Contractors' outstandings	40	ib.

2.—Removal of Produce by Purchasers.

Timber extracted by lease-holders	41	9
Duty realized	42	ib.
Reserved woods worked out by purchasers	43	10
Extraction of reserved timber	44	11
Charcoal and minor produce removed by purchasers	45	ib.

3.—Free grants.

Reserved woods for public utility	46	11

4.—Summary of outturn.

Total outturn of Tenasserim circle	47	12

5.—Drift Operations.

Collection and disposal of drift wood	48	12

6.—Girdling Operations.

Girdling operations. Teak	49	12

7.—Disposals and Sale Depôts.

Local sale	50	13
Timber depôt, Moulmein	51	ib.
Summary of sale at depôt	52	14
Approximate value of stock of timber at depôt	53	ib.

8.—Imports and exports of timber.

Imports of foreign timber at Kado	54	14
Quantity of foreign teak timber on which duty was paid	55	ib.
Exports of teak timber from Moulmein	56	15
Export trade of teak to Europe	57	ib.
Export trade of teak to Indian markets	58	ib.
Price of shingles in the Moulmein market	59	ib.
Export of boat-hulls from Tavoy	60	ib.
Value of exports of wood-oil	61	ib.
Registration of hammer-marks and revenue realized	62	ib.

CHAPTER V.

Financial Results.

Revenue and expenditure during 1891-92	63	15
Detailed comparison with previous year—		
(*a*) Timber extracted by Government agency	64	16
(*b*) Timber extracted by purchasers	65	ib.
(*c*) Drift operations	66	ib.
(*d*) Duty on foreign timber	67	ib.
(*e*) Miscellaneous	68	ib.
(*f*) Live-stock, stores, &c.	69	ib.

	Para.	Page.
(g) Communications and buildings	70	16
(h) Works of improvements	71	ib.
(i) Establishments	72	ib.
Revenue and expenditure of each division	73	ib.
Summary of receipts and charges	74	17

CHAPTER VI.

GENERAL.

Act and rules	75	17
Elephants	76	18
Controlling staff	77	ib.
Health of officers	78	ib.
Services of divisional officers	79	ib.
Executive and office establishment	80	ib.

PEGU CIRCLE.

CHAPTER I.

AREA AND BOUNDARIES.

1.—Area.

Increase of area	1	1
Pending settlement operations	2	ib.
New proposals	3	ib.

2.—Boundaries.

Demarcation and repairs	4	1
Area leased for cultivation	5	2

CHAPTER II.

1.—Surveys.

Forest survey operations	6	2

2.—Working Plans

Shwelè forest	7	2
Field work	8	ib.

3.—Annual Plan of Operations.

Annual plan of operations	9	2

CHAPTER III.

PROTECTION AND IMPROVEMENT.

1.—Establishment.

Changes in superior staff	10	2
Comparative cost of establishment	11	ib.

2.—General protection and breaches of Forest law.

Forest offences	12	3

3.—Forest Fires.

Forest fires	13	3
Thayetmyo	14	ib.
Prome	15	ib.
Tharrawaddy	16	ib.
Rangoon	17	4
Toungoo	18	ib.
Shwegyin	19	ib.
Action of District Officers	20	ib.
Thayetmyo. Injuries to plantations by fires of 1891	21	ib.
Prome	22	ib.
Tharrawaddy	23	ib.
Rangoon	24	5
Toungoo and Shwegyin	25	ib.

4.—Grazing.

Grazing	26	5

5 and 6.—Reproduction by natural and artificial means.

(a) Improvement in girdling and felling.

Improvements in girdling, &c.	27	5

(b) Regular Plantations.

Planting regular plantations	8	5

(c) Taungya Plantations.

	Para.	Page.
Planting teak taungyas	29	5

(d) Creeper-cutting, Weeding, and Thinning.

Weeding teak taungyas	30	6
Weeding regular plantations	31	ib.

(e) Cultural Operations.

Expenditure on cultural operations	32	6

(f) Experiments and Exotics.

Mahogany in Prome and Toungoo	33	6
Tharrawaddy forest garden	34	7
Exotics at Magayi	35	ib.

7.—Communications and Buildings.

(a) Roads, Bridges, and Streams.

Roads	36	7
Streams	37	ib.

(b) Buildings.

Buildings	38	7

CHAPTER IV.

YIELD AND WORKING.

1.—Departmental Operations.

Outturn	39	7
Cost of extraction	40	8
Outstanding	41	9

2.—Removal of Produce by Purchasers.

(a) Timber.

Timber extracted by purchasers	42	9
Firewood and charcoal	43	10

(b) Minor Forest Produce.

Bamboo	44	11
Grazing	45	ib.
Minor produce from reserves	46	12
Minor produce from unreserved forests	47	ib.

(3) Free Grants.

Free grants	48	12

4.—Summary of Outturn.

Summary of outturn	49	12

5.—Drift Operations.

Drift timber	50	13

6.—Girdling.

Girdling	51	13

7.—Disposals and Sale Depôts.

Local sales under I (a)	52	14
Rangoon depôt	53	ib.
Sales in Rangoon	54	ib.
Sales under A-III	55	15

CHAPTER V.

IMPORTS AND EXPORTS OF TIMBER.

Imports	56	15
Export of teak	57	16
Export of timber other than teak	58	ib.
Export of cutch and lac	59	ib.

CHAPTER VI.

FINANCIAL RESULTS.

Financial results	60	16
Comparison with previous three years	61	ib.
Comparison with previous year	62	ib.
Statement of revenue and expenditure of the years	63	17
Summary of receipts and charges	64	ib.

CHAPTER VII.

GENERAL.

	Para.	Page.
Alterations in rule	65	17
Cutch experiment	66	18
Elephants	67	ib.
Launch *Forester*	68	ib.
Collecton of seeds and specimens	69	ib.
Controlling staff	70	ib.
Executive and subordinate staff	71	ib.

APPENDICES.

	Page.
Annual Form No. 49 (Prescribed).—Area of reserved forests in the Tenasserim and Pegu circles for the year 1891-92	ii.
Annual Form No. 50 (Prescribed).—Prosecutions for breaches of forest rules in the Tenasserim circle for the year 1891-92	vi.
Annual Form No. 50 (Prescribed).—Prosecutions for breaches of forest rules in the Pegu circle for the year 1891-92	vii.
Annual Form No. 51 (Prescribed).—Area of forest tracts protected from fire during the dry season 1891-92	viii.
Annual Form No. 52 (Prescribed).—Statement showing the area of plantations in the Tenasserim circle for the year 1891-92	x.
Annual Form No. 52 (Prescribed).—Statement showing the area of plantations in the Pegu circle for the year 1891-92	xi.
Annual Form No. 52A.—Statement of taungya, teak, thitka, and padauk plantations in the Tenasserim circle for the year 1891-92	xii.
Annual Form No. 52A (Prescribed).—Statement of taungya, teak, cutch, &c., plantations in the Pegu circle for the year 1891-92	xiii.
Annual Form No. 54.—Statement of outturn (in cubic feet solid) of timber and fuel in the Tenasserim circle for the year 1891-92 and agency of exploitation	xv.
Annual Form No. 54.—Statement of outturn (in cubic feet solid) of timber and fuel in the Pegu circle for the year 1891-92 and agency of exploitation	xvi.
Annual Form No. 55 (Prescribed).—Statement showing outturn of minor forest produce in the Tenasserim circle for the year 1891-92	xviii.
Form No. 55 (Prescribed).—Statement showing the outturn of minor forest produce in the Pegu circle for the year 1891-92	xix.
Annual Form No. 56 (Prescribed).—Account of timber and other produce cut or collected by Government agency and brought to sale depôts or sold locally in the Tenasserim and Pegu circles for the year 1891-92	xxii.
Annual Form No. 56A (Prescribed).—Account of timber and other produce cut or collected by Government agency and brought to sale depôts, or sold locally, during the year 1891-92...	xxv.
Form No. 57 (Prescribed).—Abstract showing the value of timber and other produce at sale depôts for the year 1891-92	xxvii.
Form No. 57A.—Abstract showing the value of live and dead stock for the year 1891-92 ...	ib.
Form No. 58 (Prescribed).—Summary of revenue of the different divisions during the year 1891-92	xxviii.
Annual Form No. 58 (Prescribed).—Summary of expenditure of the different divisions during the year 1891-92	xxix.
Annual Form No. 59 (Prescribed).—Account-current, Tenasserim circle, for the year 1891-92 ...	xxx.
Annual Form No. 59 (Prescribed).—Account-current, Pegu circle, for the year 1891-92 ...	xxxi.
Annual Form No. 59A. (Prescribed).—Account-current for the year 1891-92	xxxii.
Annual Form No. 60 (Prescribed.—Revenue received and outstandings on account of revenue for the year 1891-92	xxxiii.
Annual Form No. 61 (Prescribed).—Outstandings and liabilities on account of contractors and disbursers for 1891-92	xxxiv.
Annual Form No. 62 (Prescribed).—Statement showing the financial results in the Tenasserim and Pegu circles for the year 1891-92	xxxv.
Appendix A.—Statement showing the cost of feed of elephants of the Forest department for the year 1891-92 as compared with that of the Commissariat Department for the same period ...	xxxvi.
Appendix B.—List of buildings of which the cost exceeds Rs. 200 in Lower Burma ...	xxxvii.
Appendix C.—Statement showing the exports of timber and other forest produce from the port of Rangoon for the year 1891-92 (private and Government)	xxxviii.
Appendix C (*a*).—Statement showing the imports of timber and other forest produce into the ports of Rangoon for the year 1891-92 (private and Government)	xxxix.
Appendix C (1).—Statement showing the exports of teak timber from Moulmein for the year 1891-92	xl.
Appendix C (2-*a*).—Statement showing the exports of shingles, railway keys, and woods of other kinds from Moulmein, Tavoy, and Mergui for the year 1891-92	ib.
Appendix C (2-*b*).—Statement showing the exports of boat-hulls and other timber from the port of Tavoy for the years 1890-91 and 1891-92	xli.
Appendix C (3).—Statement showing the exports of minor forest produce from the ports of Moulmein, Tavoy, and Mergui for the year 1891-22	ib.
Appendix C (4).—Statement showing the imports of timber and other forest produce into the ports of Moulmein, Tavoy, and Mergui for the year 1891-92	ib.
Appendix D.—Statement of teak trees girdled during the season 1891-92 in the Tenasserim and Pegu circles	xlii.
Appendix E.—Statement of outturn of foreign timber for the five years 1877-78 to 1891-92 ..	xliv.
Appendix F.—Statement showing the exports of timber and other forest produce from the port of Moulmein for the year 1891-92 (private and Government)	xlvi.
Appendix G.—Summary of revenue of the different divisions of the Tenasserim circle for the year 1891-92	xlvii.

Page.

Appendix H.—List of persons who imported 1,000 logs and more of teak timber in 1891-92 in the Tenasserim circle ... ... xlix.
Appendix I.—List showing the names of the principal exporters of teak from the 1st April 1891 to 31st March 1892 ... ... ib.
Appendix J.—Statement showing the sale prices of teak timber at home during each month for the year 1891-92 .. . . ib.
Appendix J (1).—Statement showing the market rates of teak timber in the Indian markets for the year 1891-92 in the Tenasserim circle . ... l.
Appendix K.—Selling rates in the home market for 1891-92—Churchill and Sims ... ib.
Appendix L.—Annual return of jungle woods and bamboos passed at the Government timber depôt and Puzundaung revenue station from 1st April 1891 to 31st March 1892 ... ib.
Appendix M.—Average of sales at Rangoon Central depôt, 1891-92 ... ... ib.
Appendix N.—Abstract of statement of the transactions of the Rangoon depôt on account of each division during 1891-92 . . .. li.
Appendix O.—Statement showing proposed plan of operations and works effected ... ... lii.
Appendix P.—Report on the experimental garden (civil side), Mergui, for 1891-92 ... liii.

BENGAL SECRETARIAT LIBRARY

RESOLUTION

ON THE

FOREST ADMINISTRATION REPORT

OF

LOWER BURMA

For the year 1891-92.

Extract from the Proceedings of the Chief Commissioner, Burma, in the Forest Department,—No. 2R.-7, dated the 10th August 1892.

READ—

Reports of Conservators on the administration of the forests of the Tenasserim and Pegu circles for the year 1891-92, with the remarks of Commissioners and Deputy Commissioners appended thereto.

RESOLUTION.—The report of the Tenasserim circle was received punctually on the due date, the 15th June, and that of the Pegu circle on the 20th of June.

General remarks.

2. The following figures summarize the results of the work of the year in both circles. The area of reserved forests was increased by 12 square miles. The protective measures of the year were most successful, no less than 317,529 acres having been saved out of 320,867 acres, the protection of which was attempted, compared with 235,539 saved in 1890-91. The area covered by taungya teak plantations was increased from 22,252 acres to 25,459 acres. The number of teak trees girdled was 19,549 against 17,040 in 1890-91. The quantity of timber extracted from the forests was 235,328 tons, or 57,140 tons more than in 1890-91. Of this total 58,281 tons were teak timber against 61,434 tons of teak extracted in 1890-91. The gross revenue of the two circles for the year was Rs. 28,58,114, and the expenditure Rs. 12,69,739, compared with Rs. 26,77,671 and Rs. 10,36,116 in 1890-91, the net revenue being Rs. 15,88,375, or Rs. 53,180l ess than in that year.

Reservation of forests.

3. The area of reserved forests in the Tenasserim circle remained at 1,811 square miles as before. During the hot weather of 1892 enquiries were held by a Forest Settlement Officer regarding 14 square miles of teak and 52 miles of padauk forest, which have been awaiting settlement as reserves for some time. In the Pegu circle an addition of 12 square miles was made to the area of the reserved forests, bringing the total area up to 3,804 square miles, but enquiries were held with a view to the reservation of areas aggregating many square miles, and final orders regarding them will probably be passed in the course of the current year. The work of forest settlement and reservation was again hindered owing to the difficulty of setting officers free to undertake this duty. Amongst the reserves awaiting settlement are three cutch-bearing tracts, representing a total area of 74 square miles in the Thayetmyo district, where there is urgent need for this measure. An enquiry was held by a Forest Settlement Officer regarding one of these areas

which is about to be declared a reserved forest. As was mentioned in the resolution on last year's report cutch has been almost exterminated in Lower Burma outside reserves, and in order to prevent its complete destruction it was declared a reserved tree in Lower Burma on 1st March 1892. This measure will protect the cutch-growing areas where the tree was formerly plentiful, but many years must elapse before any considerable revenue can be derived from them. Kadut, a species of tree much used in South Tenasserim for boat-building, was declared a reserved tree during the year, and the rate of duty on thingan in the Pegu Circle and in parts of the Tenasserim Circle was increased.

Forest surveys.

4. A topographical survey party continued the operations of previous years in the Toungoo division and executed 219 miles of detail survey on the 4-inch scale in the Kabaung, Bôndaung, and Pyuchaung reserves, besides 68 miles in unreserved forest on the 2-inch scale. The party further executed 600 miles of triangulation work and 250 miles of traverse survey in preparation for next season, when it will continue its work northwards in the Pyuchaung and Swa reserves. Considerable progress was made by the Imperial Forest Survey party working in the Tenasserim Circle. The traverse survey of the reserves in the Thaungyin valley was finished and triangulation work all but completed. The detail survey of the valley will, however, occupy about two seasons more. Next season detail surveyors only will be at work in Tenasserim, the triangulation and traverse party being transferred to the Pyinmana forests of Upper Burma.

Working plans.

5. A working plan of the Taungnyo forests in the Tharrawaddy division, which was prepared in 1889-90 and 1890-91, was sanctioned during the year under review. A working plan of the Shwelè forests in the Prome district was prepared, but has not yet been submitted for approval. The preparation of working plans of the Nawin forests in the same district is now in hand, and some progress has been made in the examination of the Kabaung reserve in the Toungoo district. Both Conservators report that the annual plan of operations prescribed by paragraph 62 of the Forest Code was satisfactorily worked up to by all Divisional Officers.

Offences against Forest Rules.

6. During the year 299 breaches of Forest Rules were committed in the Tenasserim circle in which 318 persons were concerned. Of these cases, 156 were compounded by Divisional Officers for Rs. 6,714, and convictions by Magistrates were got in 131 cases. Only four of the cases were for offences within reserves. The number of cases in which convictions were obtained amounted to 191 only in the previous year. The large increase which took place in 1891-92 was contributed entirely by the Salween-Attaran division,* where 113 breaches of rules occurred against 13 only in 1890-91. The Conservator's report contains no explanation of this remarkable increase. He is requested to submit a special report regarding it, stating the nature of the cases which occurred and the reason for the enormous increase in prosecutions. He is further requested to report† what proportion of the forest offences reported occurred outside the boundaries of the forest property of Government in respect of forest produce

† Paragraph 6 of the orders of the Government of India on last year's report

* NOTE.—The old East Salween and Attaran divisions were formed into the Salween-Attaran division during the year of report

in transit. There were 1,363 prosecutions in the Pegu circle, convictions being got in 1,272 cases. The corresponding figures for 1890-91 were 989 and 916. The Chief Commissioner agrees with the Conservator that fines of from Rs. 20 to Rs. 25 are an inadequate punishment for the offence of raising fire in a reserved forest. The Conservator is requested to submit a special report giving particulars of the cases he alludes to in paragraph 12 of his report. The number of offences compounded in the Pegu circle was considerably in excess of the number in the previous year, but the compensation received was Rs. 10,532-8-6 only against Rs. 10,722-15-0.

Fire-protection.

7. The results of the fire-protection measures of the year were unusually good as shown in the attached table :—

Circle.	Area in square miles.			Proportion of failures to area attempted.	Cost.		Proportion of area under fire-protection to total area of reserves (excluding taungyas).
	Attempted.	Failures.	Protected.		Per square mile protected.	Per acre protected.	
				Per cent.	Rs. A. P.	Rs. A. P.	Per cent.
Pegu	860	5	855	1·39	65 8 5	0 1 8	10·57
Tenasserim ...	141	...	141	...	57 5 1	0 1 5	7·87
Total in 1891-92...	501	5	496	1·00	63 8 1	0 1 7	9·62
Total in 1890-91	447	79	368	17·67	64 5 5	0 1 7	7·16
Increase or decrease in 1891-92.	+54	—74	+128	...	—1 2 4	...	+2·46

In the Tenasserim circle out of 90,598 acres only 5 acres were burnt,—accidentally, it is believed, by careless wayfarers—and the total cost of the fire-protection measures was only 1 anna and 5 pies per acre of the whole area saved. The report from the Pegu circle is also satisfactory. The protection was attempted of 230,269 acres, out of which 226,936 acres, or 99 per cent., were saved from fire at a cost of 1 anna and 8 pies per acre. In the preceding year the area attempted to be protected was 202,297 acres, of which 80 per cent. were saved. The smallness of the area burnt was no doubt due principally, as stated by the Conservator of Pegu, to the occurrence of frequent showers in the dry season. Part of the success in 1891-92 may, however, be ascribed to the measures referred to in paragraph 20 of Mr. Carter's report, namely, the publication of notices by Deputy Commissioners and the clearing of wider fire traces than formerly. In accordance with the orders* of the Government of India forests are now being classified by Divisional Officers according to their liability to fires, but the work of classification has not yet been completed.

* Paragraph 7 of the orders on the Forest Report of 1890-91.

8. No regular teak plantations were formed in the Tenasserim circle, where the total area of such plantations amounts to only 23 acres. An addition of 32 acres was made at a cost of Rs. 21-15-6 per acre to the Magayi plantation in the Pegu circle. About 50 per cent. of the seeds germinated. Teak-planting by the taungya system was continued in both circles. In Tenasserim

Re-production and improvement of forest growth.

1,504 acres were added to the area of teak taungyas, which now amounts to 8,274 acres; but, according to paragraphs 24 and 25 of the report, the money spent on making them seems to have been almost thrown away. Some of the plantations were a total failure, others were only partially successful. These results are most unsatisfactory. In the Pegu circle 1,280 acres of pure teak and 422 acres of mixed teak and cutch were planted by the taungya system at an average cost of Rs. 10-10-8 per acre. The results varied from ·4 to full crops of plants. The taungya plantations in the Pegu Circle now amount to 14,978 acres of pure teak, 55 acres of cutch alone, and 2,151 acres of teak and cutch mixed.

The question of the reproduction of cutch received special attention during the year under report. The Conservator of Pegu drew up careful proposals for the formation of a plantation of pure cutch on a considerable scale. These proposals provided for the planting of 700 acres annually for 60 years at an annual cost of some Rs. 22,000. The Inspector-General of Forests having expressed his approval of the Conservator's scheme sanction was given to it and steps are now being taken to carry it out. Special reference should be made in future reports to the action taken in connection with this scheme.

Girdling operations.

9. It was proposed that 700 teak trees should be girdled in the Tenasserim circle during the year, but mature trees are getting scarce and the actual number girdled was 616 only. Besides these 200 padauk trees were girdled. In the Pegu circle 6,832 trees were girdled inside and 12,101 outside reserves, out of 9,641 and 12,700 trees, the girdling of which was proposed. The greater proportion of the girdling inside reserves was done in Tharrawaddy, outside reserves in Toungoo.

Timber worked out of the forests.

10. The following table shows the quantities of teak and other kinds of timber worked out of the forests during the year by all agencies :—

	Teak.	Other kinds.	Total.
	Tons.	Tons.	Tons.
By Government agency	45,653	8,325	53,978
By purchasers and under trade permits	11,018	168,426	179,444
Under free permits	186	190	376
By leaseholders of forests	1,424	106	1,530
Total ...	58,281	177,047	235,328
Total for 1890-91 ...	61,434	116,754	178,188
Increase or decrease in 1891-92 ...	— 3,153	+ 60,293	+ 57,140

In the Tenasserim circle 8,808 tons of teak, or 3,848 tons less than in 1890-91, were extracted from the forests. No reason has been assigned for the decline. Of other reserved kinds, 7,696 tons (chiefly of pyinma) were extracted by Government agency and 10,928 tons (chiefly of thingan, kaunghmu, and kanyin) were extracted by purchasers. This is an enormous increase on the quantity, namely, 7,411 tons extracted by all agencies in 1890-91. A portion of this increase, namely, 3,000 tons in round numbers, was due to the inclusion of kanyin, which was declared a reserved tree in October 1890. The cause of the demand for pyinma was referred to in the Resolution on last year's report, while the

increased extraction of kaunghmu is due to the greater activity in boat-building in South Tenasserim alluded to in paragraph 60 of the Conservator's report. It is observed that, while the yield of kaunghmu in the South Tenasserim division increased enormously, namely, from 1,049 to 4,144 tons, the yield of thingan fell from 1,283 to 251 tons. In the Salween-Attaran division the yield of thingan rose from 1,026 to 1,987 tons. The Conservator is requested to submit a special report on these large variations. If they are due to the increase of the duty on thingan at Tavoy and Mergui, and if the increase is interfering seriously with the boat-building industry at those places, it may be necessary to reduce the rate or to equalize it throughout the Tenasserim circle. Of unreserved timbers 21,094 tons were extracted, or 2,074 tons more than in the preceding year, an increase which was due to a sudden demand at Moulmein for *In* timber, a species of wood which is largely used for canoes, houseposts, and general building purposes, but is very subject to the attacks of white ants.

11. In the Pegu circle a slightly larger quantity of teak timber was extracted than in the previous year. The year was a favourable one for floating, except in the Toungoo division, and extractions of timber by Government agency increased in consequence from 27,411 to 38,285 tons. On the other hand, owing in some degree to the season being unfavourable for floating timber in the Toungoo division, the outturn from that division fell from 24,104 to 18,881 tons. Of other reserved woods the quantity extracted was slightly less than that in 1890-91, namely, 3,948 tons compared with 4,493 tons. On the other hand, the quantity of unreserved species of timber worked out amounted to 133,312 tons, or 47,482 tons more than in 1890-91, an increase of 55 per cent., which was due in part to a demand for pyinkado timber for railway sleepers. In view of the profitable nature of the trade in pyinkado and of its rapid development the duty on this kind of timber has recently been raised.

Minor forest produce, firewood, and charcoal.

12. The principal article of minor forest produce in the Pegu circle is cutch. The revenue derived from licenses to boil cutch in reserved forests was somewhat higher than the amount yielded in 1890-91, namely, Rs. 34,463 against Rs. 28,635; but, as was anticipated in paragraph 50 of the report for that year, the revenue from this source in unreserved forests reached the trifling sum of Rs. 3,195 only compared with Rs. 36,710 in 1890-91 and Rs. 66,195 in 1889-90. The fee for licenses to make charcoal was raised from 8 annas to Rs. 2 during the year and a small tax was imposed on bamboos, canes, and "shaw" fibre. These measures added somewhat to the year's revenue from minor forest produce in both circles, but the addition was inconsiderable as the notifications by which the changes were effected were not published till several months of the year had passed. In the Tenasserim circle nearly Rs. 6,000 were obtained by selling by auction the right to collect wood-oil in the South Tenasserim division. It is hoped that the revenue from minor forest produce other than cutch will show a considerable increase in 1892-93, as the measures taken in 1891-92 will have full effect in that year. The income from firewood also should increase, it having been decided to tax firewood brought to large towns or used in manufactures and by steamers, with effect from the 1st January 1893. At present Rangoon is the only place in Lower Burma in which firewood is taxed.

13. The gross forest revenue of the year in Lower Burma was Rs. 28,58,114, that of 1890-91 and 1889-90 having been Rs. 26,77,671 and Rs. 31,34,716 respectively. Compared with 1890-91, the details under each head of receipt were as follows:—

Revenue and expenditure.

		1890-91.	1891-92.	Increase. or decrease.
		Rs.	Rs.	Rs.
From timber and other produce removed from the forests by Government agency.		16,02,580	18,96,246	+ 2,93,666
From timber and other produce removed from the forests by consumers or purchasers.	Timber	6,45,630	5,27,005	— 1,18,625
	Firewood and charcoal ...	21,152	22,473	+ 1,321
	Bamboos	5,541	15,217	+ 9,676
	Grazing and fodder grass ...	252	409	+ 157
	Other minor produce ...	74,557	51,224	— 23,333
Confiscated drift or waif wood		1,09,757	89,321	— 20,436
Duty on foreign timber and other forest produce		1,85,539	2,14,992	+ 29,453
Miscellaneous		32,663	41,227	+ 8,564
Total ...		26,77,671	28,58,114	+ 1,80,443

In Tenasserim the revenue was three-quarters of a lakh in excess of that of 1890-91, the increase being mainly derived from teak worked out departmentally, for which improved prices were got at auction, from pyinma timber, from timber extracted from the forests by purchasers, and from duty paid on foreign timber at Kado. The gross revenue of the Pegu circle amounted to Rs. 22,07,514, or Rs. 1,04,192 more than the revenue of 1890-91. The amount derived from sales of Government timber was nearly three lakhs more than in the previous year, but, on the other hand, the receipts from timber extracted from the forests by purchasers were less by over a lakh and-a-half owing to the short outturn of timber from the Toungoo forests, for which Messrs. Macgregor and Company are the contractors. The expenditure of the year, namely, Rs. 12,69,739, was greater in both circles than in the previous year. In Tenasserim it was Rs. 3,48,913, or Rs. 17,219 more, and in Pegu Rs. 9,20,826, or Rs. 2,16,403 more than in 1890-91. Outlay on works of improvement, including Rs. 21,884 under forest survey charges, and an increase in cost of officers account for the greater part of the excess in the Tenasserim circle. The additional expenditure in the Pegu circle was mainly a consequence of the larger transactions in Government timber. There was considerably larger outlay in "sowing and planting," and establishment and travelling allowance charges were also higher. The net revenue of the two circles for the year was—

	Rs.
Tenasserim	3,01,687
Pegu	12,86,688
Total ...	15,88,375

or Rs. 1,28,375 better than the revised estimate accepted by the Government of India. From this surplus, however, there has still to be deducted about Rs. 50,000 for forest survey charges not yet brought to account.

14. The quantity of teak timber imported into Moulmein by the Salween during the year was 74,165 tons, or 28,198 tons less than the quantity imported in the preceding year and 24,732 less than the imports of 1889-90. About two-thirds of the timber

Imports and exports of teak.

consisted of full-sized logs. The imports of teak by the Irrawaddy and Sittang from Upper Burma amounted to 80,793 tons. In the previous year they were 117,752 tons.

The following statement shows the quantity of teak exported from Moulmein and Rangoon to all ports during the past five years :—

Year.	From Moulmein.		From Rangoon.		Total.		
	Tons.	Value.	Tons.	Value.	Tons.	Value.	Average value per ton.
		Rs.		Rs.		Rs.	
1887-88 ...	116,507	79,54,812	52,417	36,99,610	168,924	1,16,54,422	69·0
1888-89 ...	93,465	77,21,819	62,969	48,99,547	156,434	1,26,21,366	80·7
1889-90 ...	80,871	70,05,857	103,560	81,84,843	184,431	1,51,90,700	82·4
1890-91 ...	64,227	47,01,434	110,888	78,75,794	175,115	1,25,77,228	71·8
1891-92 ...	62,320	41,88,267	99,647	75,13,397	161,967	1,17,01,664	72·2

Of the exports from Moulmein in the year under review only 8,535 tons went to Europe, or 658 tons more than in the year before, while of the quantity exported from Rangoon about one-third went to Europe and two-thirds to the Presidency ports of India. It may be noted that exports of teak to Europe from Bangkok, which threatened to come into powerful rivalry with teak from Burma, have fallen off, and that no shipments to Indian ports were made from Siam during the year A new feature in the timber business was the export of teak planks and scantlings to Europe.

Services of officers.

15. The record of work contained in the reports under review is satisfactory, and the Officiating Chief Commissioner acknowledges the efficient manner in which their charges have been administered by Mr. Carter, Major Bingham, and their subordinates.

By order of the Chief Commissioner,

C. G. BAYNE,

Secretary.

BENGAL SECRETARIAT

REPORT

ON

FOREST ADMINISTRATION

IN

THE TENASSERIM CIRCLE

For the year 1891-92,

BY

MAJOR C. T. BINGHAM, OFFG. CONSERVATOR OF FORESTS.

CHAPTER I.

AREA AND BOUNDARIES.

1.—Area.

No increase to reserved forests.

No addition was made to the area of reserved forests, which remains, as in last year, at 1,811 square miles.

Reservation of proposed five padauk tracts still pending.

2. The enquiry into the proposed padauk reserves in the Haungtharaw valley was again postponed owing to no Civil Officer being available.

Proposals for extension of the Mepalè and Kamaukala reserves, Salween Attaran division.

3. Three small blocks, aggregating about 14 square miles, were proposed to be added to the existing reserves, Mepalè and Kamaukala in the Thaungyin valley, and were notified in Notification No. 243 (Forests), dated the 14th October 1891, but the enquiry by the Settlement Officer was not held until the close of the year.

2.—Boundaries.

Revision of divisional charge.

4. During the year the limits of the divisional charges were revised What had been the Attaran was joined to the East Salween division and the two together called the Salween-Attaran division, the limits of the other divisions remaining the same.

West Salween Division.

Inspection of boundaries and repairs

5. The Divisional Officer reports that all the reserves with the exception of the Lower Methalauk and Dagwin reserves were visited by him personally, but that owing chiefly to the serious illness of the Extra Assistant Conservator of Forests, the principal subordinate with local knowledge in the division, no inspection of boundaries was undertaken.

Salween-Attaran Division.

In connection with the Forest Survey the boundaries of all the reserves in the Thaungyin valley were cleared, and after the passage of the surveyors were demarcated by wooden posts on earth or stone mounds. The sites chosen were traverse stations five to the mile, where the Thaungyin river forms the boundary of a reserve and where the traverse lines do not coincide with the boundaries. No pillars have as yet been erected, but it is proposed to put them up when the survey is completed and maps of the reserves are available The number of pillars erected round the different reserves aggregates a total of 622 along the boundaries of 11 reserves. Of those 526 were erected during the year under report.

The cost of clearing the boundaries and erecting the pillars coming to Rs. 1,874-7-0, of which, however, Rs. 1,170-0-10 were disbursed after the close of the year.

The boundaries of the reserves in the Attaran are reported as having been inspected and to be on the whole in good order.

Kado Division.

The boundaries and boundary marks of the reserve in this division are reported to be in good order.

South Tenasserim Division.

The boundaries and boundary marks of all reserves with the exception of one are reported to be in good order. In the Mintha chaung reserve the boundaries will have to be re-cut and the trees along them re-blazed. The small sum of Rs. 4-10-8 only was spent on petty repairs to boundaries.

CHAPTER II.

SURVEYS, WORKING PLANS, AND ANNUAL PLANS OF OPERATIONS.

1.—Surveys and Exploration of Forests.

Forest survey in the Thaungyin reserves, Salween-Attaran division.

6. The Imperial Forest Survey Department resumed work in the Thaungyin valley in November. The triangulation work was carried as far south as the Ônkaraing chaung. The boundaries of all the reserves were traversed and the plane-tabling party mapped out the topographical details of rather more than half the block of reserves lying in the southern portion of the valley. Details will be found in the report of the Superintendent of Forest Surveys.

Topographical maps of the southern portion of the Mergui district received.

7. In the South Tenasserim division parts of the southern end of the Mergui district were surveyed by the Topographical Survey. Draft copies of the unpublished maps of the previous season's work have been received from the Surveyor-General's Office.

Exploration of the Kanyin forests in Mergui.

8. The Kanyin forests, extending from Kauman Point to Victoria Point in the Mergui district, were explored and inspected by the Divisional Officer. These are said to be the most valuable forests in the division.

2.—Working Plans.

Existing working plans adhered to.

9. The provisions of the rough working plans for the West Salween and Salween-Attaran (late East Salween) divisions have been worked up to as far as possible.

3.—Annual Plan of Operations.

Annual plan of operations.

10. All Divisional Officers submitted plans of operations which have been satisfactorily worked up to.

CHAPTER III.

PROTECTION AND IMPROVEMENT.

1.—Establishments.

11. The distribution and cost of the permanent and temporary establishments is shown below :—

Division.	1890-91.		1891-92.			
	Cost of permanent establishment.	Cost of temporary establishment.	Sanctioned permanent establishment.	Sanctioned temporary establishment.	Actual cost of permanent establishment.	Actual cost of temporary establishment.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
West Salween ...	1,507	312	2,718	372	1,711	360
Salween-Attaran ...	14,451	5,322	7,434	3,268	6,050	2,877
Agency			8,937	3,620	8,710	3,431
Kado	13,361	10,895	13,533	13,764	13,686	11,814
South Tenasserim ...	4,206	295	4,668	588	4,188	560
Total ...	33,525	16,824	37,290	21,612	34,345	19,042

2.—*General Protection and Breaches of Forest Laws.*

Prosecutions for breaches of forest laws.

12. During the year 299 breaches of forest rules involving 348 persons were disposed of as follows:—

(*a*) *Before Magistrates.*—One hundred and forty-three cases involving 166 persons, in which 131 convictions were obtained against 154 persons, or nearly 92 per cent. of convictions.

(*b*) *Compounded by Divisional Officers.*—One hundred and fifty-six cases involving 182 persons were compounded for Rs. 6,714 in all. The amount paid to informers under Rule 44 was Rs. 54.

Four cases only out of the above were for breaches of rules inside reserves.

3.—*Fire-protection.*

General results of fire-protection.

13. Fire-protection has been completely successful this year. Out of a total of 90,598 acres, the protection of which was attempted, only 5 acres were burnt. The cost of fire-protection was Rs. 8,082-11-8, or a little over 1 anna 5 pies per acre actually protected.

Fire-protection in the West Salween division.

14. In the West Salween division one fire of trifling extent occurred, burning over about 5 acres of natural forests in the north of the Sinzwè reserve. It was supposed to have been caused by wayfarers. The cost of fire-protection came to a little over 1 anna 3 pies per acre successfully protected.

Fire-protection in the Salween-Attaran division.

15. In the Salween-Attaran division no fires occurred. The cost of fire-protection amounted to a fraction over 1 anna 6 pies per acre successfully protected.

The acreage of plantation in the Dali reserve in the Attaran valley at the close of 1889-90 was 238 acres as shown in Form 52(*a*). The area fire-traced was shown as 151 acres, the older plantations being probably considered by the Divisional Officer sufficiently established to withstand fire. In the annual report for 1890-91 the Divisional Officer reported a block of 300 acres containing the more valuable plantations as being substituted for the 151 acres (consisting of several blocks) formerly protected. No report was submitted of any plantations being abandoned or damaged by fire.

The Officiating Conservator was not able to undertake a personal inspection of this reserve until after the submission of the annual report of 1890-91, when it was then discovered that only a total of 56 acres of plantations were included in the fire-protected area of 300 acres, leaving 217 acres of plantations to be burnt through, which, with the exception of 9·4 acres naturally protected, actually occurred. The Divisional Officer in charge of the then Attaran division was Mr. M. H. Ferrars.

16. The area of forests and plantations burnt over compared with that of last year is as below:—

Division.	Reserve.	Area protected in acres.		Area over which fire spread.			
				1890-91.	1891-92.		
		1890-91.	1891-92.	Total.	Total.	Of forests.	Of plantations.
West Salween	Wamu	1,920	1,920	...	...	...	...
	Sinzwè	8,960	8,960	968	5	5	...
	Kahilu	2,560	2,560	24	...	...	...
	Mèwaing	7,360	7,360	3	...	...	...
	Minanwè	3,840	3,840	50	...	...	...
	Ônkangyi	6,300	6,300	964	...	...	...
	Bilakatkyi	6,656	6,656	6,256	...	...	...
	Tagèlaung	3,072	3,072	450	...	...	...
	Carried over ...	40,668	40,668	8,715	5	5	...

Division.	Reserve.	Area fire-protected in acres.		Area over which fire spread.			
		1890-91.	1891-92.	1890-91.	1891-92.		
				Total	Total.	Of forests	Of plantations
	Brought forward ...	40,668	40,668	8,715	5	5	...
Salween-Attaran	West Mepalè ...	25,600	25,600	98	...	...	...
	Mithawè	7,680	7,680	10	...	...	...
	Dali	800	7,000	...	...		...
	Nat chaung ...	1,800	1,800	1,800	...	...	...
	Kyun chaung ...	7,600	7,600	10	...	...	...
	Thingannyinaung ...	250	250	...	...	.	...
	Total ...	83,898	90,598	10,628	5	5	.

Inspection of plantations burnt in 1891.

17. The plantations burnt last year have been all inspected, a large proportion of these by the Officiating Conservator himself. With the exception of the plantations in the Bilakatkyi and Mepalè reserves the damage done by the fires was slight. In the Bilakatkyi reserve the plantations suffered very severely and will not probably be worth maintaining.

In the West Mepalè reserve one plantation only was badly burnt, the rest escaped with slight damage.

Fire-record maps.

18. The fire-record map kept in accordance with instructions conveyed in Inspector-General of Forests Circular No. 5, dated the 14th July 1887, for the West Mepalè reserve is herewith submitted. It shows at a glance the success or otherwise of fire-protection during the last five years.

Areas not specially protected that have escaped fire.

19. Reports have been submitted that the Yè reserve with an area of 202,880 acres in the Salween-Attaran division and the Ngawun reserve, covering 192,000 acres in the South Tenasserim division, have also escaped fire.

4.—*Grazing.*

Grazing.

20. The right of grazing elephants in the Metkanè reserve, Salween-Attaran division, has as usual been exercised during the past year.

5.—*Natural re-production.*

Natural re-production of teak.

21. In the Salween-Attaran division the natural re-production of teak in areas successfully fire-protected is said to be very good.

22. The natural re-production of the *Pinus Khasya* in the hills to the north of Papun, notwithstanding the occurrence of frequent jungle fires and incessant taungya cultivation, is reported by Mr. M. H. Ferrars, Deputy Conservator of Forests, to be most vigorous.

6.—*Artificial re-production.*

Teak taungyas. General results.

23. The area planted by teak taungya cultivators amounts to 1,599 acres as against 1,136·7 acres planted last year.

Details of the number of acres planted in the different reserves and of the number of plants per acre with cost are tabulated below :—

Division.	Reserve.	Estimated area planted in acres.	Number of plants raised per acre.	Total cost.	Average cost per acre.	Remarks.
				Rs. A. P.	Rs. A. P.	
West Salween	Mèwaing ...	212	958	2,273 0 0	9 6 8	Full stock 1,080.
	Sinzwè ...	240	808	1,910 0 0	7 15 4	Full stock 1,210.
	Onkangyi ...	297	783	1,067 0 0	3 9 6	
	Bilakatkyi ...	171	891	563 0 0	3 4 8	
	Tagèlaung ...	126	892	502 0 0	3 15 8	
	Total ...	1,076	666	6,315 0 0	5 13 11	
Salween-Attaran.	West Mepalè ...	330	682	1,026 3 6	5 13 5	Full stock 1,200 plants to the acre.
	Methawè ...	41·8	585	195 14 0	4 10 8	
	Dah ...	22·6	690	178 0 9	7 14 0	Full stock 2,000 per acre.
	Nat chaung ...	8·6	780	74 9 5	8 9 9	
	Kyun chaung ...	24·6	484	220 12 9	8 15 2	
	Thingannyinaung	95·5	*Nil*	168 4 0	1 12 2	95·5 acres were cleared and planted during the year, but being flooded were a total failure.
	Total ...	523·1	654	2,763 12 5	5 4 6	
	GRAND TOTAL ...	1,599·1	660	9,078 12 5	5 10 9	

Teak taungyas.

24. In the West Salween division the plantations in the Belakatkyi and the Tagèlaung are most unsatisfactory, the taungyas being very poorly stocked.

25. In the Salween-Attaran division results of taungya teak planting in the Thaungyin valley reserves are not as good as they were last year. The Divisional Officer attributes it to early cessation of the rains last year and to numbers of seeds not having germinated then, but which it is expected will probably come up this year.

In the Attaran reserves in none of the taungyas have even half the plants sown come up. Mr. M. H. Ferrars, Deputy Conservator of Forests, who was in charge of the division at the time the teak taungyas were planted, attempted the experiment of planting in rows of threes 100 feet apart. The experiment does not seem to be a success.

In the Thingannyinaung reserve owing to the sites for the teak taungyas being chosen on lowlying ground and owing to an exceptionally high flood at the beginning of last monsoons, the plantations of the year have been a total failure, not a plant having come up.

7.—*Cutting Creepers, Weeding, and Thinnings.*

Weeding teak taungyas.

26. The usual weedings of taungya teak plantations have been carried out. The details are below :—

Division.	Reserve.	Year of formation	Area in acres.	Cost.	Cost per acre.	Remarks.
				Rs. A. P.	Rs. A. P.	
West Salween	Mèwaing	1888	218	3,560 0 0	1 9 6	
		1889	301			
		1890	129			
	Sinzwè	1888	127			
		1889	253			
		1890	279			
	Kahilu	1888	37			
		1889	68			
		1890	...			

Division.	Reserve.	Year of formation.	Area in acres.	Cost.	Cost per acre.	Remarks.
				Rs. A. P.	Rs. A. P.	
West Salween *concluded.*	Ônkangyi	1888	110	...	...	Cost shown on previous page.
		1889	113			
		1890	100			
	Bilakatkyi	1888	40			
		1889	40			
		1890	152			
	Tagèlaung	1889	105			
		1890	168			
Salween-Attaran.	West Mopalè	1882 to 1884	83·6	2,003 6 5	2 7 5	
		1886 to 1890	689·4			
	Mithawè ..	1890	30			
	Dali	1888	48	687 5 4	2 3 11	
		1889	40			
		1890	35			
	Nat chaung	1889	28			
		1890	2			
	Kyun chaung	1888	25			
		1889	29			
		1890	37			
	Thingannyinaung	1888	11			
		1889	37			
		1890	24			

Weeding of teak taungyas, West Salween division.

27. In the West Salween division the current weeding is reported to have been very regularly and thoroughly performed. With the available labour it has not been found possible to see to the older plantations, a great part of which certainly require more seasons' weeding than the customary three years of that work usually done. An increase in the establishment of Kamu coolies is in contemplation.

Weeding of teak taungyas in the Salween-Attaran division.

28. The work of thoroughly weeding and attending to the older plantations in the Thaungyin valley of the Salween-Attaran division was carried out during the year under report.

8.—*Experiments and Exotics.*

Mahogany.

29. The mahogany plants in the Forest Office compound and at Duyinzeik on the Dôndami river are doing well. At Shwegôn of the five that survived from last year three only are left. The site is in my opinion too exposed and the soil too poor to suit mahogany.

Mergui experimental gardens. Departmental experiments. Para rubber.

30. The number of the large trees of the *Hevea Braziliensis* remains at 46, none having died during the year. The average girth of these is 42″, showing a growth of 4″ during the year. Six hundred and sixty-eight seedlings more were transplanted from the nursery into the plantations of the *hevea* made last year, bringing up the total number of the smaller trees to 8,391. Of these, so well have they thrived, a large number will, it is expected, be fit for tapping in the course of a few years. Experience has shown that the *hevea* seedlings do far better when planted in the shade of natural forest than when planted out in the open of a clearing. To enable it to successfully struggle against the undergrowth of the natural forest a little clearing and attention is required during the first year. Seed of the *hevea* was collected during the year and forwarded to the Secretary, Tenasserim Agri-Horticultural Society, for distribution.

Castilloa elastica.

31. Only 33 of the *castilloa* plants now survive. This rubber plant is not doing well at all. Every rains new shoots come out and grow vigorously during the monsoon. As soon as the dry weather sets in, however, the whole plant sickens and fades

away, some dying right out. Everything that can be thought of has been tried, they being planted in all sorts of sites, but with equally bad results. The experiment is a failure.

Manihot glaziovii. Ficus macrophylla.

32. The *Manihot* has re-produced itself freely all over the gardens. It will probably grow better under shade; an experiment will be tried of sowing the seeds broadcast over the forest. The number of plants of the *Ficus macrophylla* have been reduced to 132, many of the young cuttings dying off.

The rest, however, are growing vigorously and the experiment promises to be a success.

Other plants cultivated.

33. Only one sickly mahogany plant is left. Of the rest the numbers are given below.

Pithecollobium saman	24
Manilla hemp	402
Divi-divi	1,472
Talaingsôk	80
Annatto	892
Kyetpaung	102
Kyetlauk	80
Akyaw	45
Thaungthangyi	11
Nutmeg	64
Sankozi	240
Broussonetia papyrifera	9

Expenditure during the year.

34. The total expenditure for the year charged to the Forest Department area amounted to Rs. 853.

Experimental cultivation undertaken with provincial grant.

35. A report of the experiments undertaken with the provincial grant was submitted through the Deputy Commissioner, Mergui, and is annexed to his letter forwarding the divisional report (*vide* Appendix P).

9.—*Communications and Buildings.*

Improvement of river communication.

36. A sum of Rs. 299-8-0 was expended in clearing the course of the Dôndami river of snags, overhanging trees, &c. Of this sum Rs. 150 was not disbursed till after the close of the financial year.

37. The total cost in buildings in the circle during the year amounted to Rs. 1,742-4-8. In the West Salween division a few temporary rest-houses were erected.

The question also of building an office and house at Papun for the Divisional Officer was under consideration, and, pending its erection, the sanction of the local Government was obtained for the renting of a building at an expenditure of Rs. 200 per annum for the use as an office of the Divisional Officer. This officer, however, reports that no occasion existed for his using it and no disbursements have been made in consequence.

In the Salween-Attaran division repairs were executed to the rest-houses at Mepalè, Gyne, and Nat chaung and to the Kawkareik bungalow at a cost of Rs. 75-4-0. Rupees 108 were realized for the last.

In the Kado division Rs. 850 were expended in re-roofing the Forest office at Kado. This building was erected in 1864 and nothing has ever been done in the way of repairs to the roof. It was in a most ruinous condition. The erection of two guard huts at Mezeik and other petty repairs for buildings in the division amounted to Rs. 219-8-0.

In the South Tenasserim division repairs and additions to the various buildings amounted to Rs. 357-8-8. Repairs to the Central Forest office, Moulmein, earth-oiling and painting came to Rs. 240.

The launch *Attaran* attached to the Kado division made 65 trips during the year, aggregating 3,132 miles and was 595 hours under steam.

The working expenses amounted to Rs. 4,466-12-11; including wages of crew, Rs. 1,303; coal, Rs. 941-2-9; stores, &c., Rs. 166-2-0; repairs, Rs. 2,016-8-2, and Surveyor's fees Rs. 40. Notwithstanding the extensive repairs to her boiler carried out during the year under report, the launch has now broken down in her engine and funnel. A separate and detailed report has been submitted to the local Government.

CHAPTER IV.

YIELD AND WORKING.

1.—Departmental Operations.

Departmental extraction of teak timber.

38. During the year 18,045 logs, measuring 7,368 tons, were worked out by Government agency. Below are tabulated the extraction per division and the rates paid.

Division.	Number of logs extracted during the year.	Average rates paid to contractors per log.	Average cubical contents per log.
		Rs. A. P.	C. feet.
West Salween	5,517	4 14 5	14
Salween-Attaran	10,395	4 11 1	20·5
Kado	2,133	3 1 3	11
Total ...	18,045	.....	.....

The decrease from last year's extraction was 6,160 logs or 3,746 tons.

Departmental extraction of timber other than teak.

39. Of timber other than teak 6,974 logs, measuring 7,796 tons, were extracted by Government agency. Details as below :—

Division.	Timber.	Number of logs worked out during the year.	Average rate paid to contractors per log.	Estimated cubical contents per log.
			Rs. A. P.	C. feet.
West Salween ..	Pyinma	746	8 6 7	53
	Kanyin	209	16 11 8	119
Salween-Attaran ...	Padauk ...	191	.....	46
	Pyinma	4,915	.....	53
	Thitka	196	.....	85
	Kanyin	355	.....	73
	Ingyin	15	.....	24
	Other unreserved wood ...	52	.....	55
Kado	Pyinma	216	.....	58
South Tenasserim ...	Thitka	39	9 11 10	66·6
	Pyinkado	34	.....	44
	Kamaung ...	6	10 4 6	51·6
	Total ...	6,974	...	...

The above shows an increase of 3,728 logs, measuring 4,105 tons. The increase is chiefly due to the extraction of pyinma, efforts being made to introduce the wood into the Indian market for railway sleepers and building material.

Contractors' outstandings.

40. There were no outstandings against timber contractors at the close of the year.

2.—*Removal of Produce by Purchasers.*

Timber extracted by lease-holders.

41. Timber brought out by lease-holders from the Attaran forests is as below :—

Forest.	Teak.		Other wood.			
	Logs and pieces.	Tons.	Thitka.	Pyinma.	Thingan.	Estimated total cubical contents of other woods.
Megwa-Kyun chaung... ...	2,564	1,338	...	...	...	...
Mitiki-Kodugwè	186	86	...	...	... 6	48
Total ...	2,750	1,424	...	...	6	48

42. The duty realized was—

	Rs.	A.	P.
On 2,564 teak logs and pieces	5,875	14	0
On six thingan boat-hulls	255	0	0
Outstandings from last year	162	15	0
Total ...	5,793	13	0

The duty, Rs. 313-1-0, due on 186 teak logs and pieces, had not been paid at the close of the year.

43 The subjoined table shows the quantities of reserved woods worked out by purchasers.

Division.	Teak.	Thingan.	Kaungmu.	Padauk.	Pyinma.	Thitka.	Karawe.	Thitkado.	Kanzau.	Anan.	Kanyin.	Total.	Revenue.
	T. C. ft.	T. C. ft.	T. C. ft.	T. C. ft.	T. C. ft.	T. C. ft.	T. C. ft.	T. C. ft.	T. C. ft.	T. C. ft.	T. C. ft.	T. C. ft.	Rs. A. P.
West Salween	1 46	56 7	...	...	...	...	...	...	...	..	111 40	169 43	749 6 0
Salween-Attaran.	...	1,987 7	577 18	17 29	1 10	179 36	...	...	..	...	2,756 0	5,519 0	27,118 7 3
Kado ...	...	130 24	15 0	...	4 0	53 42	...	...	...	...	213 0	416 16	2,954 13 9
South Tenasserim.	...	251 0	4,144 0	...	...	91 0	25 0	2 0	186 0	96 0	30 0	4,825 0	3,413 8 0
Total ...	1 46	2,424 38	4,736 18	17 29	5 10	324 28	25 0	2 0	186 0	96 0	3,110 40	10,930 9	34,236 3 0

The extraction of unreserved woods was as below :—

Division.	Number of logs.	Nominal tonnage.	Revenue.
		Tons.	Rs. A. P.
West Salween	289	246	470 0 0
Salween-Attaran	8,582	7,543	12,854 8 8
Kado	6,276	4,986	8,887 4 0
South Tenasserim	16,349	8,219	9,254 12 9
Total ...	31,496	20,994	31,466 9 0

44. As compared with the figures of last year there has been a most remarkable increase in the extraction of reserved timber. The number of tons extracted is over 7,000 in excess of that extracted last year, while the revenue realized has been more than double.

This increase is chiefly due to an increase in the extraction of kaungmu and thingan for boat-hulls, and also to some 3,000 tons of kanyin extracted after its reservation.

In unreserved timber there has been an increase of over 8,000 logs and of Rs. 5,000 in revenue over the figures of last year. The increase has been entirely in the Salween-Attaran and Kado divisions on account of a sudden demand for In in the Moulmein market. There has been a considerable falling off in the West Salween division and a slight decrease in the South Tenasserim division.

Charcoal and minor produce removed by purchasers.

45. Of the revenue derived from minor forest produce the different divisions contributed as follows :—

Produce.	West Salween.	Salween-Attaran.	Kado.	South Tenasserim.	Total.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Charcoal	...	206 0 0	18 0 0	29 8 0	253 8 0
Wood-oil	...	246 0 0	4 0 0	5,473 0 0	5,723 0 0
Bamboos	...	101 13 0	788 11 0	168 1 0	1,058 9 0
Canes	...	...	1 0 0	314 12 0	315 12 0
Shaw fibre	...	...	15 0 0	...	15 0 0
Ondôn bark	...	...	...	106 0 0	106 0 0
Pyu bark	...	...	...	230 0 0	230 0 0
Cardamom	...	...	...	730 0 0	730 0 0
Grazing	..	..	...	10 0 0	10 0 0
Total ...	...	553 13 0	826 11 0	7,061 5 0	8,441 13 0

The increase of nearly Rs. 6,000 over the revenue realized last year is due chiefly to the system of selling by auction the right to collect wood-oil in the South Tenasserim division.

3.—Free grants.

46. Free grants of reserved woods for religious purposes and works of public utility were made as follows :—

Division.	Number of logs.							Estimated cubical contents.
	Teak.	Thingan.	Pyinma.	Anan	Karawê.	Kanzan.	Total.	
								Tons.
West Salween... ...	28	...	2	...	...	...	30	18
Salween-Attaran ...	...	8	11	...	...	...	14	8
Kado	...	..	...	...	...	...	...	...
South Tenasserim ...	...	5	...	5	2	2	14	14
Total ...	28	8	13	5	2	2	58	40

4.—*Summary of outturn.*

47. The total outturn of the Tenasserim circle was as follows:—

How removed.	Timber.				Charcoal and minor forest produce.
	Teak.	Reserved woods other than teak.	Unreserved woods.	Total.	
	Tons.	Tons.	Tons.	Tons.	Rs. A. P
By Government agency	7,368	7,696	100	15,164	...
By lease-holders	1,424	48	...	1,467	..
By purchasers	2	10,928	20,994	31,924	8,441 13 0
Under free grants	14	26	...	40	...
Total	8,808	18,698	21,094	48,595	8,441 13 0

Timber, out of this total outturn, converted; and figures given of equivalent fuel for charcoal shown in Forms 54 and 56 are not entered in the above.

5.—*Drift Operations.*

Collection and disposal of drift wood.

48. The statement as below gives the quantities of drift timber collected and disposed of:—

		Balance, 1890-91.	Collected in 1891-92.	Returned to claimants.	Sold or disposed of.	Balance at the close of the year.
		Logs.	Logs.	Logs.	Logs.	Logs.
Kado division ...	River drift teak ...	2,688	6,918	4,037	2,054	3,515
	River drift woods of other kinds.	10	25	17	..	18
	Teak scantlings .	Ton. 1	...	Ton. 1	...	...
	Sea-drift teak	345	1,388	112	1,179	392
Salween-Attaran division.	Woods other than teak ...	...	80	...	80	...
South Tenasserim division.	Woods of other kinds ...	39	68	...	72	35

The revenue realized was—

	Rs.	A.	P.
On sales	45,255	7	5
On salvage	14,245	14	0
Total ..	59,501	5	5

The total expenditure incurred on salving operations, inclusive of quota of charges for other expenditure, amounted to Rs. 35,397-5-0.

6.—*Girdling Operations.*

Girdling operations. Teak.

49. Proposals were submitted for the girdling of 200 teak trees in Block II of the late East Salween division (now forming part of the Salween-Attaran division) and of 500 trees in Block V of the West Salween division. The amount of teak in Block II of the late East Salween division has, as has been emphasized several times in the correspondence on the subject with the local Government, been very much

over-estimated. Out of the 200 trees proposed to be girdled this year, after most careful search 116 only could be found, which it was either advisable or possible to girdle without most serious injury to the forest. The girdling in this block has now extended over three years. According to the rough working plans sanctioned, 3,000 trees at least should have been obtained, whereas the total obtained up to date has been only 1,220, nor will it be possible to continue girdling in the block during the two years of the period which have still to run.

In the West Salween division, Block V, the full number of 500 trees was obtained with considerable difficulty, the yielding capabilities of the forest being here also much over-estimated. Of species other than teak the full number according to proposals submitted were girdled. Details are as follows :—

Division.	Number of teak trees girdled.	Number of padauk girdled.	Cost.
			Rs. A. P.
West Salween	500	...	199 8 0
Salween-Attaran	116	200	...
Total ...	616	200	...

7.—*Disposals and Sale Depôts.*

Local sales.

50. The arrivals, disposals, and sales of timber, &c., in the South Tenasserim division are given in the subjoined statement :—

Description of timber.	Balance on hand 1st April 1891.		Arrivals during 1891-92.		Sales and disposals in 1891-92.		Amount realized.	Balance on hand 31st March 1892.	
	Logs.	Tons.	Logs.	Tons.	Logs.	Tons.	Rs. A. P.	Logs.	Tons.
Woods other than teak ...	494	487	79	88	35	41	389 9 2	538	534
Rejected pyinkado sleepers.	513	15	...	...	450	13	483 12 0	63	2
Confiscated woods, other kinds.	12	16	53	72	53	74	462 12 5	12	14
Drift and waif wood ...	27	27	15	28	19	31	175 6 0	23	24
Pyinkado scantlings ...	...	...	...	59	...	...	.	...	59
Pyinma sleepers ...	...	...	411	33	...	...	...	411	33
Total ...	1,046	545	558	280	557	159	...	1,047	666

Timber depôt, Moulmein.

51. The arrivals and disposals of timber at the Moulmein depôt were as follows :—

Description of timber.	Balance on hand 1st April 1891.		Arrivals during 1891-92.		Sales and disposals in 1891-92.		Balance on 31st March 1892.	
	Logs.	Tons.	Logs.	Tons.	Logs.	Tons.	Logs.	Tons.
Teak	233	62	15,912	6,898	12,229	6,194	3,916	766
Woods other than teak ...	503	408	6,679	7,455	6,710	7,541	472	322
Confiscated logs other than teak	. .	...	30	28	30	28	...	...
Miscellaneous scantlings and sleepers.	1,666	214	261	40	1,532	144	395	110
Total ...	2,402	684	22,882	14,416	20,501	13,902	4,783	1,198

Summary of sales at depôt.

52. The sales from the Moulmein depôt realized Rs. 2,62,961* as detailed below.

	Logs.	Tons.	Rs.	A.	P.	Per ton. Rs.	A.	P.
Teak by auction sales ...	12,164	6,160	1,42,337	10	0	23	1	8
Teak indent sales ...	65	34	564	0	0	16	9	4
Padauk indent sales ...	66	53	3,111	14	0	58	11	5
Sales to Gun Carriage Factory, Bombay, padauk indent.	104	108	13,561	11	0	125	9	1
Pyinma indent sales ..	5,639	6,051	73,863	8	9	12	3	3
Sales to Gun Carriage Factory, Madras, pyinma indent.	41	60	5,407	11	4	90	2	0
Sales to Burma State Railway and Ordnance Department, pyinma indent.	31	41	1,215	8	0	29	10	4
Sales to Gun Carriage Factory, Madras, ingyin indent.	29	22	2,497	9	0	113	8	4
Pyinkado indent sales ...	10	2	29	7	0	14	11	6
Thitka indent sales ...	146	100	1,800	0	0	18	0	0
Thitka auction sales ...	49	39	784	0	0	20	1	7
Kanyin indent sales ...	103	156	1,960	4	9	12	9	0
Kanyin auction sales ...	465	865	10,013	0	0	12	9	10
Unreserved wood indent sale ...	1	1	10	0	0	10	0	0
Pyinma sleepers indent sales ...	108	7	216	0	0	30	13	8
Pyinma scantlings auction sales ...	...	2	19	8	0	9	12	0
Pyinma scantlings indent sales ...	...	6	222	15	6	37	2	7
Pyinkado sleepers indent sales ...	910	27	898	4	6	33	4	3
Pyinkado scantlings auction sales ...	...	5	45	12	0	9	2	4
Pyinkado scantlings indent sales ...	...	78	3,502	3	0	44	14	4

Approximate value of stock of timber at depôt.

53. The value of the stock in hand on the 31st March 1892 is estimated at Rs. 18,252.

8.—*Imports and exports of timber.*

Imports of foreign timber at Kado.

54. The balance of foreign timber at the Kado timber station at the close of the year was 130,607 logs of teak estimated at 115,933 tons and 84 logs measuring 66 tons of woods of other kinds.

The imports of the year were—

Full-sized teak logs	54,375
Under-sized teak logs	23,455
Stem pieces	6,448
Total teak logs and pieces	84,278
Woods of other kinds	11 logs

Compared with last year there was a decrease in the imports of 34,481 full-sized logs and an increase of 1,856 under-sized logs and 581 stem pieces, the total decrease on imports being 32,044 logs and pieces.

The quantity of timber removed from the Kado depôt was 114,142 logs of teak and 3 logs of other kinds. The balance at the close of the year was 100,743 logs of teak estimated at 113,656 tons and 92 logs or 72 tons of woods of other kinds.

Quantity of foreign teak timber on which duty was paid.

55. The quantity of foreign timber on which duty was paid and the corresponding figures of last year are as follows :—

Year.	Logs.	Tons.	Value.	Duty realized.
			Rs.	Rs.
1891-92	110,751	73,468	30,71,461	2,14,992
1890-91	108,284	65,678	26,50,318	1,85,539
Difference in 1891-92 ...	+ 2,467	+ 7,790	+ 4,21,143	+ 29,453

* Rupees 5,148-4-0 of this was outstanding at the close of the year—on account of pyinma Rs. 5,072-4-0 and teak sales Rs. 76.

The average market value of teak timber was Rs. 27-11-7 per log, or Rs. 41-12-9 per ton this year, showing a slight improvement in the market rate of last year. The market value of two thingan boat-hulls (imported for the first time) was Rs. 704.

The Bombay Burma Trading Corporation, Limited, imported from Ningyan 3,394 teak logs estimated at 2,987 tons, or nearly double the amount imported last year. The duty on this was paid at Toungoo.

Exports of teak timber from Moulmein.

56. The total exports from the port of Moulmein of teak were 62,320 tons, showing a decrease of 1,907 tons on the exports of last year.

The exports of woods other than teak were 6,659 tons, showing an increase on last year of 1,965 tons.

The exports of teak from Moulmein to Europe were 8,535 tons, or 658 tons more than in the previous year.

Export trade of teak to Europe.

57. The prices of teak in the home markets varied from £9 to £11-10-0, showing a decided improvement in value towards the close of the year of 50*s*. The freight varied from 40*s* to 45*s* per ton.

Export trade of teak to Indian markets.

58. In the Indian market the prices varied in Bombay and Calcutta as follows :—

Bombay—

	Rs.		Rs.
Squares	50	to	70
Scantlings	60	to	85

Calcutta—

Squares	60	to	70
Scantlings	70	to	90

59. The price of shingles in the Moulmein market averaged Rs. 20 per 1,000.

60. The export of boat-hulls from Tavoy shows a still further increase on last year's export. The figures for the two years are—

	1890-91.		1891-92.	
	Boat-hulls	Rs.	Boat-hulls.	Rs.
Exported from Tavoy... ...	107=	1,10,750	121=	1,48,450
Exported from Mergui ...	1=	900	4=	6,400

61. The value of exports in wood-oil and torches has also considerably increased, amounting this year to Rs. 31,752 as against Rs. 22,097 in 1890-91.

62. In the Kado division the registration of hammer-marks and revenue realized showed a slight increase.

The registrations were as follows :—

	Rs.
68 new hammer-marks for teak timber at Rs. 100 each	6,800
46 old marks renewed at Rs. 25 each	1,150
274 old marks renewed at Re. 1 each	274
52 old marks transferred at Rs. 10 each	520
4 old marks transferred at Rs. 5 each	20
37 new hammer-marks for woods other than teak at Rs. 5 each ...	185
Total ...	8,949

In other divisions for woods of kinds other than teak 51 hammer-marks were registered, realizing Rs. 255.

CHAPTER V.

Financial Results.

63. The revenue and expenditure during the year 1891-92 were as follows :—

	Rs.
Revenue	6,50,600
Expenditure...	3,48,913
Surplus .	3,01,687

showing an increase of Rs. 59,032 on the surplus of the previous year.

64. For the timber extracted by Government agency Rs. 2,77,125 were realized as against Rs. 2,65,064 in the previous year. This is an increase of only Rs. 12,061 in spite of the increased extra extraction of pyinma; deliveries of teak falling short of the deliveries during the previous year.

Detailed comparison with previous year.
(a) Timber extracted by Government agency.

The value of Government teak timber was Rs. 11-9-9 per log, or Rs. 23-1-2 per ton as against Rs. 8-12-3 per log, or Rs. 17-5-0 per ton during 1890-91

The expenditure amounted to Rs. 1,58,012 as against Rs. 1,60,230 during the previous year.

65. On account of timber and minor forest produce removed by purchasers, Rs. 79,938 were realized as compared with Rs. 50,375 in 1890-91, a heavy increase of Rs 29,563. Of this sum Rs. 22,000 is due to increased activity in the extraction of thingan and kaunghmu boat-hulls. The remainder is due to the sales of the right of working wood-oil in the South Tenasserim division being sold by public auction for blocks of forest areas instead of licenses being issued.

(b) Timber extracted by purchasers.

66. On account of drift Rs. 59,501 were realized as against Rs. 60,230 in the previous year. The expenditure was Rs. 28,123, or Rs. 712 more than in 1890-91, due to the heavy repairs required by the forest launch *Attaran*.

(c) Drift operation.

67 On foreign timber the duty realized was Rs. 2,14,992, an increase of Rs. 29,453 on the figures of the previous year, owing to an improvement in the market. The expenditure amounted to Rs. 6,540, Rs. 8,000 budgeted for as compensation for land not being disbursed within the year.

(d) Duty on foreign timber.

68 Under this head Rs. 19,044 were realized as against Rs. 13,141 in the previous year. The increase of Rs. 5,903 is entirely due to the number of cases of breaches of rules compounded by Divisional Officers.

(e) Miscellaneous.

69. Rupees 5,704 were disbursed, a decrease of Rs. 535. The amount of the decrease should have been greater, as no elephant was purchased during the year, had not an unexpected increase under stores for survey raised the expenditure.

(f) Live-stock, stores, &c.

70. Rupees 1,903 were spent, showing an increase of Rs. 745 on the figures of the previous year on account of repairs to the Kado office and expenditure on clearing the Dôndami river.

(g) Communications and buildings.

71. On works of improvement Rs. 39,849 were spent (including survey figures up to end of March only, *i.e.*, Rs. 21,884); the increase is due to expenditure on account of the survey operations.

(h) Works of improvement

72. On establishment Rs. 1,05,310 were spent, an increase of Rs. 8,847, due to increase in the number of and promotion of superior officers.

(i) Establishments.

73. The revenue and expenditure by divisions were as follow:—

Revenue and expenditure of each division.

Division	Revenue.			Expenditure	Surplus or deficit.
	Collected locally.	Agency collection.	Total.		
	Rs.	Rs.	Rs.	Rs.	Rs.
Agency ...				7,988	— 7,988
Salween Attaran ..	1,039	2,73,371	2,74,410	1,98,195	+ 76,215
West Salween ...	932	87,302	88,234	46,561	— 8,327
Kado	3,18,940		3,18,940	80,372	+2,38,568
South Tenasserim ...	24,016		24,016	15,847	+ 8,169
Total ...	3,39,927	3,10,673	6,50,600	3,48,913	+3,01,687

Summary of receipts and expenditure.

74. The summary of receipts and expenditure compared with the last two years is as below :—

	Receipts.			Expenditure.			Surplus or deficit.					
	1889-90.	1890-91.	1891-92.	1889-90.	1890-91.	1891-92.	1889-90.		1890 91.		1891-92.	
							Surplus.	Deficit.	Surplus.	Deficit.	Surplus.	Deficit.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—Departmental timber operations.	4,45,884	2,65,064	2,77,125	2,40,918	1,89,768	1,93,882	2,04,966	...	75,296	...	83,243	...
II.—Other revenue	2,87,674	3,09,285	3,73,475	92,509	91,303	86,053	1,95,165	...	2,17,982	...	2,87,422	...
III.—Formation and improvement.	...	...	...	39,885	50,023	68,978	...	39,885	...	50,023	...	68,978
Total ...	7,33,558	5,74,349	6,50,600	3,73,312	3,31,604	3,48,913	3,60,246	...	2,42,655	...	3,01,687	...

CHAPTER VI.

General.

Act and Rules.

75. The following are the principal revisions of rules issued under the Forest Act of 1881, made during the year which affect the Tenasserim circle :—

Notification No. 80 (Forests), dated the 20th April 1891, added Kawkareik to the list of revenue stations in the circle.

Notification No. 153 (Forests), dated the 23rd July 1891, added kadut to the list of reserved trees in all divisions of the Tenasserim circle except the South Tenasserim division.

Notification No. 171 (Forests), dated the 12th August 1891, added paragraph (*a*) to Rule 33 of the Directions for the management of the Kado timber station and revised Form No. IV for the same.

Notification No. 184 (Forests), dated the 27th August 1891, revised the scale of fees for the registration of hammer-marks.

Notification No. 210 (Forests), dated the 24th September 1891, limited the extraction of *than*.

Notifications Nos. 214 and 215 (Forests), dated the 25th September 1891, revised paragraph (*d*) of Rule 8 and prescribed License Form No. IX-B. for the extraction of shaw fibre.

Notification No. 250 (Forests), dated the 22nd October 1891, provided that licenses issued for thingan in this circle should be issued in Form No. IV only.

Notification No. 267 (Forests), dated the 17th November 1891, revised License Form No. VIII.

Notification No. 270 (Forests), dated the 20th November 1891, revised License Forms Nos. IV and V and raised the rate for thingan timber.

Notification No. 14 (Forests), dated the 20th January 1892, revised License Forms Nos. VI and VII.

Notifications Nos. 15 and 16 (Forests), dated the 23rd January 1892, revised Rule 12 and prescribed License Form No. XIV (*b*).

Notification No. 36 (Forests), dated the 9th February 1892, revised License Form No. XIII.

Notification No. 49 (Forests), dated the 12th February 1892, added cutch to the list of reserved trees in all divisions of the circle except in South Tenasserim.

Notification No. 98 (Forests), dated the 17th March 1892, prescribed License Form No. VII*a* for the extraction of kalamet in the Mergui district, Tenasserim division.

By Notification No. 110 (Forests), dated the 28th March 1892, the Chief Commissioner appointed, for the purposes of the Burma Forest Act of 1881, Extra Assistant Conservators of Forests in Lower Burma to be Sub-Assistant Conservators of Forests.

76. The number of elephants remained the same as in last year, the average monthly cost of each animal being Rs. 31-8-6.

Elephants.

77. The charge of the Tenasserim circle from the 1st April 1891 to the 4th March 1892 was held by the writer of this report, when, on his being deputed to the Board of Control of the Imperial Forest School, Dehra Dun, Mr. P. J. Carter, Conservator of Forests, Pegu Circle, took over charge and held it for the remainder of the year.

Controlling staff.

78. The health of officers has, on the whole, with the exception as below, been good throughout the year—

Health of officers.

In November 1891 Maung Shwe Ka, the Extra Assistant Conservator of Forests, on probation, lately appointed, had to take leave for six months, his health having completely broken down.

79. The West Salween division has been in charge throughout the year of Mr. M. H. Ferrars, Deputy Conservator of Forests. Mr. T. A. Hauxwell, Deputy Conservator of Forests, has had charge of the revised Salween-Attaran division, and in addition has had the superintendence of the Forest Survey Party working in this circle. His work has been very heavy and has been most satisfactorily carried out.

Services of Divisional Officers.

The Kado division has throughout the year been in charge of Mr. A. Weston, Deputy Conservator of Forests, and the work of the division has been well carried out.

Mr. W. T. T. McHarg, Assistant Conservator of Forests, on the re-constitution of the divisions in the Tenasserim circle took over charge of the Agency division in addition to the work of the Kado subdivisional office.

The South Tenasserim division remained throughout the year in charge of Mr. C. Ingram, Extra Assistant Conservator of Forests.

80. The subordinate forest and office establishments have on the whole worked well. Mr. Johnson, Superintendent of Conservator's office, and Babu Ramasawmy, Head Clerk of the Agency Office (who has much responsible and heavy work), have again given every satisfaction.

Executive and office establishment.

MOULMEIN:
The 13th June 1892.

C. T. BINGHAM, MAJOR,
Offg. Conservator of Forests,
Tenasserim Circle.

REPORT

ON

FOREST ADMINISTRATION

IN

THE PEGU CIRCLE

For the year 1891-92,

BY

P. J. CARTER, ESQUIRE, CONSERVATOR OF FORESTS.

CHAPTER I.

AREA AND BOUNDARIES.

1.—Area.

Increase of area.

THE area of reserved forests was increased during the year by 12 square miles by the addition to the list of the Yetkanzin reserve in the Toungoo district, which was proclaimed in Notification No. 178, dated the 26th August 1891. The proposal to constitute the Chaungma-nge forest a reserve was abandoned, as it was found that the greater part of the area was clothed with comparatively worthless *indaing*.

Pending settlement operations.

2. The settlement of the following reserves was incomplete at the close of the year: Kyaukletgya, Ônhnèsan, Thigôn, Panichaung, Shandat, and Sinmataung in the Thayetmyo division; Myolè in the Tharrawaddy division; Pyinma, Shwelaung, Kodugwè, and Pyinbôngyi in the Rangoon division; Wun-Pein and Baingda-Kawliya in the Shwegyin division, and Myanaung in the Western division.

New proposals.

3. Proposals for further reservation are in course of preparation in the Toungoo and Shwegyin divisions.

2.—Boundaries.

Demarcation and repairs.

4. Rupees 55-9-6 were spent in the Thayetmyo division on repairs to the boundaries of the Satsuwa, East Yoma, Thabala, Saingdôk, Mindôn-Yoma, and Ngawet reserves. In the Prome division the boundaries of the Prome plantation and Shwekyundaw reserves were re-demarcated at a cost of Rs. 197-3-0. An expenditure of Rs. 528-4-3 was incurred in the Tharrawaddy division in repairs to the boundaries of the Chaungnagôn, Kangyi, Thitcho, Thakolan, Taukkyan, Taungnyo, Bawbin, Gamôn, Minhla, Môkka, Kadin-Bilin, and Kôn-Bilin reserves. In the Rangoon division Rs. 304-13-1 were spent on repairs to the boundaries of the Magayi, Thabyu, Kyun chaung, Hmawbi, Wanet chaung, and Paunglin reserves. In the Toungoo division the Nyaunggyidauk, Kyungôn, Kanyutkwin, and Yetkanzin reserves were demarcated at a cost of Rs. 995-14-0, and Rs. 115 were spent on repairs to the boundaries of the Saingyanè and Myohla reserves. In the

Shwegyin division Rs. 29 were spent in minor repairs to the boundaries of the Kanyinmyaung and Nyabwa reserves.

Area leased for cultivation.

5. The Chaungnagôn reserve and part of the Sitkwin reserves in the Tharrawaddy division are being leased for paddy cultivation as well as the Thitpyat reserve in the Rangoon division.

CHAPTER II.

1.—Surveys.

Forest survey operations.

6. The Forest Survey Party was employed in the survey of the Kabaung, Bôndaung, and Pyu reserves on the 4-inch scale, and on preparing traverses for future work in the Pyu and East and West Swa reserves and in triangulation. The estimated cost of the party from the 1st October 1891 to the 30th September 1892 is Rs. 1,09,600. The amount of work done is—

	Square miles.
Detail survey on 4" scale=	219
Detail survey on 2" scale=	68
Traverse survey	250
Triangulation	600

Field work was commenced on the 28th November and closed on the 6th June. Progress was somewhat retarded by the early rains.

2.—Working plans.

Shwelè forests.

7. Working plans for the Shwelè and Kangyi forests have been drawn up, but are not yet sanctioned.

Field work.

8. The examination of the Nawin forests was completed and work was continued in the Kabaung forest. Messrs. H. Carter and J. Messer were again employed on this work; they took the field on the 1st December and closed the field work on the 13th April; work was delayed on some occasions by rain and by the difficulty in feeding the party in the more remote portions of the forest. The amount spent under A—VIII (*c*) during the official year was Rs. 14,101-8-9.

3.—Annual plan of operations.

Annual plan of operations.

9. The plan of operations was well adhered to by Divisional Officers as may be seen from Appendix O.

CHAPTER III.

PROTECTION AND IMPROVEMENT.

1.—Establishment.

Changes in superior staff.

10. Mr. J. T. Jellicoe, Deputy Conservator, was transferred from Assam and joined the Pegu circle in February 1892. Mr. F. W. Thellusson, Deputy Conservator, was absent three months on privilege leave, and Mr. H. A. Hoghton went on privilege leave on the 4th March 1892. Mr. J. Nisbet was absent from the circle for three months and officiated as Conservator of Upper Burma Circle; he went on furlough on the 13th February 1892. Maung Wè, Forest Ranger, was promoted to be an Extra Assistant Conservator on 1st May 1891, and Mr. J. Allmark, Depôt Officer, was promoted to 1st grade Extra Assistant Conservator on the 1st January 1892.

Comparative cost of establishment.

11. The following statement shows comparative cost with the previous year of permanent and temporary establishments :—

Division.	1890-91.		1891-92.			
	Cost of permanent establishment.	Cost of temporary establishment.	Sanctioned permanent establishment.	Sanctioned temporary establishment.	Actual cost of permanent establishment.	Actual cost of temporary establishment.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Thayetmyo ...	3,458	3,625	4,476	4,920	3,084	4,620
Prome	6,903	1,827	9,480	5,368	8,166	4,397
Tharrawaddy ...	11,061	5,217	11,472	4,884	10,418	2,788
Rangoon	8,885	2,489	10,368	3,552	10,124	2,664
Toungoo	9,472	1,777	10,116	2,086	8,437	2,250
Shwegyin	5,357	3,062	6,486	1,824	5,563	1,580
Western	5,408	1,101	4,788	2,964	4,845	2,954
Agency	24,445	11,120	27,210	12,120	24,829	10,758
Total ...	74,989	30,218	84,896	37,668	74,461	31,951

2.—General protection and breaches of Forest law.

Forest offences.

12. During the year 1,002 breaches of forest laws involving 1,162 persons were disposed of; 167 cases, in which 248 persons were implicated, were prosecuted and convictions were obtained in 150 cases against 219 persons.

Divisional Officers compounded 835 cases involving 914 persons for Rs. 10,532-8-6. The offences were of an ordinary nature and none of them occurred outside the boundaries of the forest property in respect of forest produce in transit. The percentage of convictions in cases sent into Court is 90 and acquittals were again most numerous in the Thayetmyo division. In cases of convictions for setting a reserved forest on fire fines of Rs 20 to Rs. 25 only have been inflicted, and this is scarcely sufficient to prevent future offences.

The number of offences was considerably more than in the previous year. It is believed that this is the result of better detection and not of a real increase in offences committed.

3.—Forest Fires.

Forest fires.

13. Fire-protection has been more successful than usual owing to early rains and previous showers occurring in every month through the dry season. The area attempted was 230,269 acres or 27,972 acres more than in the previous year, while the area protected was 226,936 acres or 64,667 acres more than in 1891. The percentage protected was 99 per cent. as compared with 80 per cent. in the previous year. The cost was Rs. 23,262, or 1 anna 8 pies per acre.

Thayetmyo.

14. In Thayetmyo fire passed over the whole area of the Tindaw reserve including 216 acres of plantations. A series of fires commenced early in February, the authors of which have not been discovered. This is the fourth year in succession in which this area has been burnt. Protection was successful in the East Yoma forest. The cost of protection was Rs. 331-7-6, or 4 pies per acre protected.

Prome.

15. In the Prome division three fires occurred in Chaungzauk, aggregating 40 acres of forest and one in Bwet, where fire passed over 58 acres of forest and 12 acres of plantation. One of these fires was probably accidental, the second arose from the embers of the first which had not been properly extinguished by the guard in charge, the other two fires were the work of incendiaries who have not been discovered. The cost of protection amounted to Rs. 5,511-7-6, or 3 annas 8 pies per acre protected.

Tharrawaddy.

16. In the Tharrawaddy division one fire occurred in Minhla and one in Nyanlè. On 30th March fire crossed the southern trace of the Minhla area and spread over 291 acres of forest and 4 acres of plantation; this portion of the trace had not yet been

properly cleared and the contractor was fined. On 11th April a fire broke out in the centre of an 1886 plantation in Nyanlè and spread over 3 acres of forest and 8 acres of plantation. The cost of protection amounted to 1 anna 6 pies per acre protected.

Rangoon.

17 In the Rangoon division fire-protection has been successful, the cost amounted to 1 anna 1 pie per acre protected.

Toungoo.

18. In the Toungoo division a fire occurred in Bôndaung reserve on the 20th March and spread over 37 acres of forest. The origin of the fire could not be discovered. The cost of protection amounted to 1 anna 10 pies per acre protected.

Shwegyin.

19. In the Shwegyin division the Kyundaung reserve was successfully protected at a cost of 7 pies per acre.

Action of District Officers.

20. This season notices were issued by the District Officers to all villagers pointing out to them that it was a punishable offence to set a forest reserve on fire or to kindle fires in its vicinity without observing the prescribed precautions. Hitherto it had been the custom to purposely burn the forest outside the fire-protected area; to have done so this year would have nullified the good effect to be expected from the action of the District Officers, and accordingly broader traces were cleared and the area non-protected was not purposely fired. This has increased the cost of protection, but the area of non protected reserved forest which escaped fire amounted to 101,147 acres in Tharrawaddy and to 70,202 acres in Rangoon, while large areas escaped being burnt in Shwegyin and probably also in Toungoo.

Thayetmyo. Injuries to plantations by fires of 1891.

21. The Divisional Officer has submitted no details as to the injury done to the 193 acres of plantations in Tindaw in 1891 Of the area visited by the Conservator the teak had suffered little.

Prome.

22 The plantations burnt in Chaungzauk aggregated 174 acres planted in the years 1879 to 1889, those of 1879 to 1884 and those of 1886 to 1888 have suffered little perceptible injury, while those of 1885 to 1889, amounting to 57 acres, discover considerable injury, the traces of which, however, will soon disappear if the injury does not recur. The one acre burnt in Bwet shows no perceptible injury. In Gwedaukkwin fire passed through 65 acres of plantations of 1883, 1884, 1885, and 1888; in the area of 1885 (12 acres) the smaller suppressed trees have been injured, but otherwise the damage was slight. Of the 106 acres burnt in Kyaukgyidaung no damage has been done on the greater part of the area, and on the other part there has been no permanent injury.

Tharrawaddy.

23. Of the 3 acres burnt in Payagyi ¼ acre was plantation of 1889, in which the trees were burnt down to 4 to 10 feet from the ground and a forked growth has resulted; elsewhere the damage was slight. In Bawbin 50 acres of 1868 plantations, 10 acres of 1869, 4 acres of 1873, 15 acres of 1875 show no perceptible injury; 15 acres of 1876 were burnt, of which one-third was not injured, the remaining two-thirds were badly damaged, rows of trees 12 to 20 inches in diameter have been killed, but the trees which were only burnt to the ground but not killed have sent out stool shoots which have attained a height of 20 feet. The severe damage was due to the presence of dead material left in weeding the plantation; in 24 acres of 1877 no harm has been done where the stock was full, in the parts lighter stocked damage is perceptible but not permanent. In 15 acres of 1878 the damage was similar to that in 1876 plantation but not so serious; in 13 acres of 1879 the damage is scarcely perceptible. In 26 acres of 1880, most of which is poorly stocked, the damage is very perceptible, in 3 acres of 1884 and 8 acres of 1885 the damage was very slight, in 33 acres of 1886 the injury is very perceptible in places where the stock is not full. In 29 acres of 1887 and 19 acres of 1888 the damage is similar, but not so serious, except in one block of four yas, where the fire has encouraged a

dense growth of large grasses which has been beaten down by heavy rains and has carried with it the stool shoots arising from the burnt trees; and in 17 acres of 1889 the damage has been slight. In Minhla and Môkka the damage was either *nil* or slight, except in 30 acres of 1887 plantation which were poorly stocked and have been seriously injured. In Kôn-Bilin the damage was very slight.

Rangoon.

24. No report on the damage done last year in the Rangoon division has been received. The Conservator visited the Magayi and Dawè plantations. In the former the damage was slight over the greater part of the area burnt, whilst the Dawè plantations show little or no traces of injury.

Toungoo and Shwegyin.

25. No report has been made by the Toungoo or Shwegyin Divisional Officers on this subject.

4.—Grazing.

Grazing.

26. Rupees 129-4-0 were received in the Tharrawaddy division for the grazing of 314 head of cattle in the reserves, and in the Rangoon division Rs. 269-12-0 for 860 head of cattle. Right-holders grazed in reserves 375 head of cattle in the Tharrawaddy division.

5 and 6.—Reproduction by natural and artificial means.

(a) Improvement girdlings and fellings.

Improvements in girdling, &c.

27. In the Thayetmyo division teak trees were freed from dominating overgrowth and creepers in the Tindaw and East Yoma reserves. In the Tharrawaddy division the following areas were similarly treated:—

	Rs.	A.	P.
Taungnyo forest, 4,560 acres, costing	1,048	7	9
Bawbin forest, 1,024 acres, costing	310	0	0
Gamôn forest, 8,628 acres, costing	1,174	13	0
Minhla forest, 3,372 acres, costing	774	12	0
Môkka forest, 1,789 acres, costing	857	7	6
Kadin-Bilin forest, 909 acres, costing	713	6	6
Kôn-Bilin forest, 1,234 acres, costing	889	14	9
Thônzè forest, 1,300 acres, costing	436	9	9
Total 22,811 acres, costing ...	6,205	7	3

or an average of 4 annas 4 pies per acre. In the Rangoon division Rs. 85-4-0 were spent in the Kadat reserve in cutting creepers and felling teak trees attacked by ficus. In the remaining divisions no work of this kind was undertaken, except on a small scale, by Forest Officers when inspecting their forests.

(b) Regular plantations.

Planting regular plantations.

28. In the Rangoon division the area of the Magayi plantation was increased by 32 acres at a cost of Rs. 702-11-6, or Rs. 21-15-6 per acre. The high cost, which has not been explained by the Divisional Officer, seems to be due to the large expenditure of Rs. 289-12-0 on seed. The density of the crop (full crop=1·0) was 0·9.

(c) Taungya plantations.

Planting teak taungyas.

29. The area planted was 1,702 acres, or 1,280 acres of pure teak and 422 acres of teak and cutch. The density of crop and cost are shown in the following statements:—

Density of Stock.

Division.	0·4	0·5	0·6	0·7	0.8	0·9	1·0	Total.
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Thayetmyo	18	82	188	108	14	...	...	400
Prome	...	11	57	162	...	...	...	230
Tharrawaddy	...	20	49	83	233	346	22	753
Rangoon	15	10	22	36	51	53	...	187
Toungoo	...	11	33	32	42	8	6	132
Total ...	28	134	349	416	340	407	28	1,702

Cost

Division.	Acres.	Rs.	A.	P.	Per acre. Rs.	A.	P.
Thayetmyo	400	3,171	8	0	7	14	10
Promo	230	1,949	2	8	8	7	7
Promo, last year's plantations...	..	1,381	12	9	...		
Tharrawaddy	753	7,569	13	6	10	0	10
Rangoon	187	2,578	1	4	13	12	7
Toungoo	132	1,554	12	6	11	12	5
Total ...	1,702	18,155	2	4			

The cost per acre includes Rs. 1,609 paid in previous year for teak seed.

(*d*) *Creeper cutting, weeding, and thinning.*

Weeding teak taungyas.

30. Teak taungyas were weeded as follows:—

	Acres.	Rs.	A.	P.	Per acre. Rs.	A.	P.
Thayetmyo	287	608	10	0	2	1	11
Promo	1,797	4,775	14	0	2	10	7
Tharrawaddy	6,786	24,685	12	4	3	10	1
Rangoon	688	1,515	14	10	2	8	8
Toungoo	470	605	1	6	1	4	7
Shwegyin	6	20	0	0	3	5	4
Total ...	10,034	32,161	4	8			

Weeding regular plantations.

31. Regular plantations were weeded—

	Acres.	Rs.	A.	P.		Per acre. Rs.	A.	P.
Magayi	849	763	14	8	or	0	14	5
Kyetpyugan	123	870	15	11	or	7	1	4
Myodwin	...	5	0	0				
Kywèmakaing	...	2	4	0				
Promo	...	6	4	0				

Establishment cost—

	Rs.	A.	P.
Kywèmakaing	60	0	0
Magayi	1,012	13	6

and sundries—

	Rs.	A.	P.
Magayi	58	12	3
Kyetpyugan	15	14	0

(*e*) *Cultural operations.*

Expenditure on cultural operations.

32. In the Bwet reserve Rs. 108-8-0 were spent in weeding 50 acres of sowings. In the Nyanlè reserve Rs. 1,189-10-0 were spent in weeding 782 acres of sowings. In the Môkka reserve Rs. 34-0-0 were spent in weeding the sowings of 1877. In the Gamôn reserve Rs. 67-8 0 were expended on weeding 21 acres of the cutch sowings of 1888. In the Kôn-Bilin reserve the area sown in 1890 was found to be 70 acres and not 82; this area was weeded at a cost of Rs. 583-4-2. A further area of 80 acres was treated at a cost of Rs. 1,382-14-10 for planting and weeding. In this amount is included a charge for teak seed, amounting to Rs. 92, disbursed last year: and Rs. 55-11-10 were expended on an extension of the area to be sown next year. These sowings in Kôn-Bilin seem at present to be fairly successful, although expensive. It is proposed to continue them annually on a small scale to obtain experience in operating on an area of flowered bamboo of the larger kind, as sowings in the past have mostly been confined to areas on which myinwa (*D. striches*) had flowered, while on this area it was tinwa (*C. pergracile*). Rupees 170-11-9 were expended infencing one plantation at Rangoon and teak seed tor the plantations of 1892 cost Rs. 747.

(*f*) *Experiments and Exotics.*

Mahogany in Prome and Toungoo.

33. Only four mahogany trees in the Chaungzauk reserve remain, but they are flourishing; one tree in the compound at Paungdè died after an inundation. It is reported

that there are now 19 plants in the Saingyanè and Pyun chaung reserves, but that they are not flourishing.

Tharrawaddy forest garden.

34. The maintenance of the forest garden at Tharrawaddy cost Rs. 637-1-0; no exotics were added, but a number of seedlings of indigenous trees were planted out.

Exotics at Magayi.

35. There are now 35 mahogany trees, four having been planted during the year; they seem to be fairly healthy. Of the 63 Ceara rubber trees three have died. The number of *Ficus elastica* plants has been increased from 25 to 53. Only 951 plants of the *Chevanessia esculenta* are reported to exist at the end of the year, of which 670 are bearing fruit. The vanilla plants are healthy and flower, but do not set fruit.

7.—*Communications and Buildings.*

(*a*) *Roads, bridges, and streams.*

Roads.

36. Rupees 184-8-0 were spent in the Tharrawaddy division, of which Rs. 155 were devoted to opening out a new dragging path in the Kangyi reserve. In the Rangoon division Rs. 158 were spent on repairs and minor works.

Streams.

37. In the Shwegyin division Rs. 743 were spent in clearing the Yenwè chaung and on the rectification of its channel. The work was begun before the rains of 1891, but it is yet too soon to say whether it will result in a permanent improvement. As there are now no leased fisheries on the Yenwè and Baingda streams, it is believed they are improving and will improve from natural causes. The other streams will be dealt with if the work on the Yenwè proves successful.

In the Tharrawaddy division Rs. 549-10-2 were spent on the protection of bridges on the Thônzè and Bilin streams, Rs. 81-2-0 were spent on protecting the banks of the Taungnyo stream, and Rs. 150 in clearing the lower reaches of the Taung chaung. Rupees 4,276-7-0 (of which Rs. 2,425-14-0 were the cost of explosives) were expended on blasting floating streams in the Thônzè, Kôn-Bilin, Kadin-Bilin, and Môkka forests with successful results.

(*b*) *Buildings.*

Buildings.

38. In the Thayetmyo division repairs and minor works cost Rs. 50-6-5. In the Prome division a room was added to the office at a cost of Rs. 323-11-8, and Rs. 276-5-0 were spent on repairs to six buildings. In the Tharrawaddy division a new rest-house was built at Nyanlè at a cost of Rs. 500, out-houses to the Kangyi rest-house cost Rs. 120, repairs to seven buildings cost Rs. 209-9-6, and Rs. 77-8-0 were paid to establishment. In the Rangoon division quarters for a ranger were erected for Rs. 172-8-0 and elephant sheds for Rs. 21-5-1, and repairs to six buildings cost Rs. 529-8-4. In the Toungoo division the Forest bungalow and office were painted at a cost of Rs. 588, establishment cost Rs. 300, and repairs to rest-houses Rs. 109. In the Shwegyin division a revenue station was built at a cost of Rs. 396, repairs cost Rs. 125 for the bungalow at Shwegyin, and Rs. 46-8-6 for the elephant shed. In the Western division Rs. 41-4-0 were paid for repairs to elephant sheds. Rupees 875 were spent on repairs to buildings at the Timber depôt in Rangoon, and quarters for the overseer were erected by the Public Works Department for Rs. 2,500.

CHAPTER IV.

YIELD AND WORKING.

1.—*Departmental Operations.*

Outturn.

39. A very favourable floating season on the greater part of the streams in Lower Burma has resulted in the very large outturn of 40,358 teak logs; the average extraction of the preceding five years was 29,230 logs. The total outturn was as follows:—

Division.	Extracted.	Sold locally.	Made over to contractors.	Used or lost.	Sent to Rangoon.
Teak logs.					
Thayetmyo	3,780	718	1,485	...	879
Prome	2,018	575	...	...	1,475
Tharrawaddy	18,374	42	...	...	18,252
Rangoon	4,570	28	...	...	4,520
Toungoo	9,972	...	...	...	9,972
Shwegyin	1,510	...	...	...	780
Western	125	125	...	...	...
Total ...	40,358	1,483	1,485	...	35,878
Refuse and small teak logs.					
Prome	884	803	...	...	...
Tharrawaddy	2,272	2,526	...	...	...
Rangoon	7,366	...	...	...	...
Total ...	10,522	2,829	...	...	...
Logs other than teak.					
Tharrawddy	88	...	...	86	2
Rangoon	480	256	...	...	108
Western	10	10	...	...	...
Total ...	528	266	...	86	110

Cost of extraction.

40. The expenditure under AI*a* was as follows :—

Delivery of logs during 1890-91.

	Logs.	Rs.	A.	P.
Thayetmyo	280	3,507	0	0
Prome	1,635	16,801	4	0
Rangoon	108	719	0	0
Toungoo	84	825	8	0
Total ...		21,852	12	0

Delivery of logs to Rangoon during 1891-92.

	Logs.	Rs.	A.	P.		Per ton. Rs.	A.	P.
Thayetmyo	879	3,170	9	0	or	9	15	1
Prome	1,473	16,240	0	0	or	11	3	10
Tharrawaddy...	18,254	2,05,731	15	6	or	11	8	0
Rangoon	4,413	50,539	8	8	or	11	10	10
Toungoo	8,708	1,74,436	4	4	or	20	4	0
Shwegyin	597	11,055	7	2	or	20	5	0
Total ...	33,824	4,61,173	7	8				

Prome	2	Not paid for yet.
Rangoon	215	
Toungoo	1,264	
Shwegyin	183	
Total ...	35,488	

Local deliveries during 1891-92.

	Logs.	Rs.	A.	P.		Per ton. Rs.	A.	P.
Thayetmyo	3,395—1,485 logs to contractors				or	11	8	0
Prome	895	5,370	6	11	or	12	13	8
Tharrawaddy	2,430	7,211	10	6	or	6	10	8
Rangoon	3,144	743	14	6	or	4	0	0
Western	185	1,515	5	8	or	17	8	0
Total ...	14,999	14,841	5	7				

Thayetmyo	15	Not paid for yet.
Prome	32	
Rangoon	144	
Total ...	15,190	
Shwegyin	730	Not paid for yet.
Total ...	15,920	

	Rs.	A.	P.
Girdling	5,185	8	0
Establishment	10,677	3	11
Travelling allowance	891	8	0
Floating streams	5,840	3	2
Maintenance of steam-launch	3,014	2	4
Landing and despatching logs	8,379	9	4
Sale expenses	5,498	0	0
Sundries	152	12	11
Total ...	39,633	11	2

Outstandings.

41. The outstandings against contractors at the close of the year were—

	Rs.	A.	P.
Thayetmyo	250	0	0
Prome	972	14	0
Tharrawaddy	4,480	11	5
Rangoon	50	0	0
Toungoo	15,631	12	0
Shwegyin	255	0	0
Total ...	21,640	5	5

In this sum there is a doubtful debt of Rs. 50 only.

2.—*Removal of produce by purchasers.*

(a) *Timber.*

Timbâr extracted by purchasers.

42. The following statements give abstracts of all transactions :—

FROM RESERVES.

Teak.

	Logs.	C. ft.	Rs.	A.	P.
Toungoo	2,794	191,092	80,258	10	0

Reserved Woods.

	C. ft.	Rs.	A.	P.
Prome	1,685	376	8	3
Tharrawaddy	1,559	281	0	9
Total ...	3,244	657	4	0

Unreserved Woods.

	Dugyis at 45 C. ft.	Yas at 20 C. ft.	C. ft.	Rs.	A.	P.
Prome	730	635	45,550	3,142	8	0
Tharrawaddy ...	533	812	30,225	1,509	4	0
Rangoon	3,720	191	171,220	11,446	8	0
Total ...	4,983	1,138	246,995	16,098	4	0

FROM UNRESERVED FORESTS.

Teak.

	Logs.	C. ft.	Rs.	A.	P
Thayetmyo		5,850	1,650	9	0
Prome 57		1,287	159	15	0
Tharrawaddy 1,265		28,961	8,195	1	3
Rangoon		156	31	3	0
Toungoo 3,919		256,618	1,07,779	11	6
Toungoo		2,359	530	0	6
Shwegyin 1,453		58,686	23,862	3	6
Western		6,357	1,898	10	8
Total		359,774	1,44,107	6	5

FROM UNRESERVED FORESTS.

Division.	Dugyis at 45 cubic feet.	Yathits at 20 cubic feet.	Posts at 5 cubic feet.	Poles at 1 cubic foot.	Sawn timber in cubic feet.	Cubic feet.	Amount. Rs.	A.	P.
Reserved Woods.									
Thayetmyo	...	...	...	...	...	2,926	1,408	0	8
Prome	...	...	...	...	...	145	72	9	9
Tharrawaddy	...	...	...	...	...	9,432	1,844	5	6
Rangoon	...	...	...	...	...	12,747	2,199	8	2
Toungoo	...	...	...	...	...	93,894	8,297	12	9
Shwegyin	...	...	...	...	...	37,770	4,992	0	0
Western	...	...	...	...	...	21,581	3,513	7	3
Total ...	...	...	...	...	...	178,495	22,327	11	8
Unreserved Woods.									
Thayetmyo	4,567	24,648	43,473	24,220	...	940,060	28,499	2	3
Prome	2,326	11,416	2,369	1,277	65,375	411,487	14,465	1	6
Tharrawaddy	12,175	11,411	1,226	312	5,767	788,304	27,590	10	0
Rangoon	5,358	1,658	1,384	100	...	281,290	9,377	10	2
Toungoo	18,214	1,193	671	9,325	...	856,170	28,304	9	9
Shwegyin	15,296	2,778	1,960	1,850	...	755,430	25,515	1	9
Western	23,641	14,013	49,442	759,946	...	2,851,261	55,305	9	8
Agency	...	127	1,476	2,515	...	12,485	499	7	3
Total ...	81,577	67,239	102,001	799,545	71,142	6,396,437	189,557	4	4

	Rs.	A.	P.
Revenue from Arakan	2,497	1	8
Total ...	4,55,503	10	1
Outstanding from previous year	5	4	11
Revenue under II (*a*) ...	4,55,508	15	0

This is a decrease of Rs. 1,42,195-9-8 on the receipts of 1890-91. Teak timber extracted under contract in the Toungoo division by Messrs. Macgregor and Company yielded Rs. 2,12,465 less than in the previous year, the decrease being due to scanty rain in the northern part of the Toungoo division and consequent unfavourable conditions for floating timber.

Unreserved logs from unreserved forests yielded Rs. 76,749 more than in the previous year; this was partly due to the demand of pyinkado timber for railway sleepers.

Firewood and charcoal.

43. The transactions in firewood and charcoal were—

FROM RESERVES.

Firewood.

	C. ft.	Rs.	A.	P.
Tharrawaddy	36,900	293	0	10
Rangoon	234,500	1,172	8	0
Total ...	271,400	1,465	8	10

Charcoal.

	Estimate in cubic feet of wood.	Rs.	A.	P.
Rangoon	10,800	200	0	0

FROM UNRESERVED FORESTS.

Firewood.

	C. ft.	Rs.	A.	P.
Tharrawaddy	33,200	332	0	0
Rangoon	28,800	288	0	0
Toungoo	21,675	174	6	0
Shwegyin	82,350	823	8	0
Agency	1,780,080	17,300	14	7
Total ...	1,846,105	18,418	12	7

FROM UNRESERVED FORESTS.

Charcoal.

	Estimate in cubic feet of wood.	Rs.	A.	P.
Thayetmyo	75,800	245	8	0
Prome	79,800	282	0	0
Tharrawaddy	45,000	140	0	0
Rangoon	214,500	872	0	0
Toungoo	46,800	166	8	0
Shwegyin	124,800	296	8	0
Western	63,000	188	0	0
Total ...	649,200	2,185	8	0
Total II (*e*)		22,219	13	5

This is an increase of Rs. 1,323 on the figures of the previous year, partly due to an increased consumption of firewood in Rangoon and partly to the increase of fees payable on licenses to burn charcoal.

(*b*) *Minor Forest Produce.*

Bamboo.

44. The revenue from bamboos was—

FROM RESERVED FORESTS.

	No.	Rs.	A.	P.
Thayetmyo	68,650	171	10	0
Prome	38,800	97	0	0
Tharrawaddy	1,329,800	3,324	8	0
Rangoon	1,003,550	2,555	10	0
Toungoo	39,750	99	6	0
Shwegyin	8,100	20	4	0
Total ...	2,488,650	6,268	6	0

an excess of Rs. 780 over the revenue of previous year.

FROM UNRESERVED FORESTS.

	No.	Rs.	A.	P.
Thayetmyo	392,200	980	8	0
Prome	47,500	118	12	0
Tharrawaddy	14,900	37	4	0
Rangoon	88,500	331	14	0
Toungoo	21,450	53	10	0
Shwegyin	141,175	475	2	9
Western	2,293,425	5,878	11	0
Agency	5,000	18	12	0
Total ...	3,004,150	7,889	9	9

No revenue has been received in former years on bamboos extracted from unreserved forests.

Grazing.

45. Grazing in reserves yielded—

	Rs.	A.	P.
Tharrawaddy	129	4	0
Rangoon	269	12	0
Total ...	399	0	0

an excess of Rs. 147 over the receipts of previous year.

Minor produce from reserves.

46. Other minor produce from reserves brought in—

Division.	Cutch.	Shaw fibre.	Cigar leaves	Laterite	Wood-oil.	Thatch and salu.	Canes.	Honey.	Miscellaneous.	Total
	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs.	Rs.	Rs
Thayetmyo	..	...	..	...	..	...	...	..	29	29
Prome	587	272	11	...	48	...			..	918
Tharrawaddy ...	33,876	194	177	..	115	1	1	15	64	34,443
Rangoon ...		170	...	28	...	52	46		66	362
Toungoo ...	...	14		..	20	...	23	80		137
Shwegyin		17	..	...	...	...	...	...	...	17
Total ...	34,463	667	188	28	183	53	70	95	159	35,906

This is an increase of Rs. 5,100 on the revenue of the previous year and is almost entirely due to the enhanced prices offered and paid for cutch licenses in the Tharrawaddy division.

Minor produce from unreserved forests.

47. From unreserved forests were obtained—

Division.	Cutch.	Resin.	Wood-oil and thitsi	Extract from barks.	Canes.	Shaw	Miscellaneous	Total.
	Rs	Rs.	Rs.	Rs	Rs	Rs.	Rs.	Rs
Thayetmyo	2,515	38	...	1,760		..	...	4,313
Prome ...	...	...	108	..		..	8	116
Tharrawaddy	480	...	78	...			..	558
Rangoon	...	..	48	...	..	...	...	48
Toungoo ...	200	6	684	...	177	150	...	1,217
Shwegyin	..	...	224	...	270	30	...	524
Western	...	...	.		1,077	15	...	1,092
Total	3,195	44	1,142	1,760	1,524	195	8	7,868

A decrease of Rs. 30,194 on the receipts of the previous year, which is entirely due to the falling off in revenue on cutch licenses; this was anticipated as may be seen from the report for the previous year. The revenue of the year under II (*e*) was Rs. 44,103-9-6, which includes Rs. 330, being an outstanding amount of the previous year. An outstanding of last year, amounting to Rs. 30, proved irrecoverable.

3.—Free grants.

Free grants.

48. Timber was granted for works of public utility to the extent of 8,598 cubic feet of teak and 8,225 cubic feet of other reserved woods

4.—Summary of outturn.

Summary of outturn.

49. The quantity of timber and fuel extracted from the forests in the circle was :—

How extracted.	Teak.	Other reserved woods.	Unreserved woods.	Fuel.	Bamboo.
	C ft.	C. ft.	C. ft.	C. ft.	
By Government Agency ...	1,914,233	7,448	19,013		
By purchasers ..	550,866	181,739	6,648,432	2,777,505	5,492,900
By right-holders ...	..	...	8,160	..	26,375
Under free grants ...	8,598	8,225	...		
Total ...	2,473,697	197,412	6,665,605	2,777,505	5,519,175

This is an increase on the outturn of the previous year of 1 per cent. on teak, 55 per cent. on unreserved woods, and 118 per cent. on bamboos. There was a decrease of 12 per cent. on reserved woods other than teak and 32 per cent. on fuel. The increase on bamboos is for the most part fictitious, as the extraction of bamboos in previous years from unreserved forests was not under control.

5.—*Drift Operations.*

Drift timber.

50. The following table gives the result of the drift timber operations:—

Division.	Balance, 1890-91.	Collected, 1891-92.	Returned to claimants.	Sold.	Used or lost, &c.	Sent to Rangoon.	Balance.
	Logs.	Logs.	Logs.	Logs.	Logs.	Logs.	Logs.
Thayetmyo	236	87	202	51	21	...	49
Prome	98	189	92	104	...	...	91
Rangoon	...	427	...	185	...	242	...
Toungoo	155	837	609	219	8	..	156
Shwegyin	197	1,380	1,084	100	80	184	229
Western	135	488	221	205	2	...	195
Agency	240	615	975	167	...	..	89
Total ...	1,061	3,973	3,183	1,031	61	376	809

The number of logs collected was 71 per cent. less than in the previous year. This is due to the scanty outturn from Upper Burma; as fewer logs were floated, fewer went adrift. The expenditure under A-III was as follows:—

	Rs.	A.	P.
On account of previous year's collections	748	12	1
Collections of 1891-92, 3,616 logs	6,522	11	4
Establishment	1,408	15	10
Rafting 869 logs	590	8	0
Sundries	915	8	0
Total ...	10,181	7	3

6.—*Girdling.*

Girdling.

51. In unreserved forests the girdling of teak trees was carried out as follows:—

Thayetmyo division, Myedè range		500
Prome division, Nawin range		500
Rangoon division	Hlaing range	151
	Pegu range	917
Toungoo division	Thagaya range	966
	Zeyawadi range	179
	Bônmadi range	7,782
Shwegyin division, Bawni range		1,106
Total ...		12,101

In reserved forests the following girdlings were undertaken:—

		Trees.
Tharrawaddy division	Taungnyo forest	1,909
	Bawbin forest	1,094
	Gamôn forest	961
	Minhla forest	195
	Môkka forest	476
	Kadin-Bilin	906
	Kôn-Bilin	299
	Thônzè	206
Rangoon division	South Zamayi	500
	Kadat	286
Total ...		6,832

7.—*Disposals and Sale Depôts.*

Local sales under I (*a*).

52. The local sales of timber extracted by Government agency were—

Teak.

	Logs.	C. feet.	Rs.	A.	P.
Thayetmyo	713	18,510	6,229	6	6
Prome	878	21,001	10,778	13	8
Tharrawaddy	2,568	50,482	10,729	8	0
Rangoon	28	1,400	850	0	0
Western	125	3,952	2,821	11	11
Total ...	4,312	90,345	30,904	7	8

Other kinds.

	Logs.	C. feet.	Rs.	A.	P.
Rangoon	256	12,800	1,920	0	0
Western	10	363	119	14	9
Total ...	266	13,163	2,039	14	9

The sales at the Rangoon depôt were—

	Logs.	C. feet.	Rs.	A.	P.
Teak	30,988	1,481,495	15,78,755	9	10
Other kinds	128	6,473	3,063	4	4
	35,694	1,591,476	16,14,763	4	7
Add outstanding from last year			37,445	0	0
Total ...			16,52,208	4	7
Deduct outstanding at close of year			33,087	0	0
Actual receipts ...			16,19,121	4	7

Rangoon depôt.

53. The transactions at the Rangoon Central Depôt are shown in the following table :—

Description.	Balance outstanding April 1891.		Arrivals during the year.		Sales and disposals during the year.		Balance on 31st March 1892.	
	Logs.	Cubic feet.	Logs.	Cubic feet.	Logs.	Cubic feet.	Logs.	Cubic feet.
Teak	22,649	1,085,963	35,378	1,727,342	30,946	1,481,432	27,081	1,331,873
Teak sleepers ...	42	63	...	...	42	63	...	...
Wood of other kinds...	55	2,352	110	5,584	128	6,473	37	1,463
Teak drift ...	114	6,247	1,086	40,020	1,128	44,016	72	2,251
Other kinds drift ..	..	...	31	1,521	14	630	17	891
Total	22,860	1,094,625	36,605	1,774,467	32,258	1,532,614	27,207	1,336,478

The arrivals during the year were 450,984 cubic feet more than in the previous year, and the balance on hand at the close of the year 241,853 cubic feet more than the closing balance of 1890-91. The stock in hand has been valued at Rs. 8,45,980 or Rs. 1,40,664 in favour of the year.

Sales in Rangoon.

54. The sales gave the following results :—

	Logs.	Rs.	A.	P.	Per ton. Rs.	A.	P.
Selected timber on indent ...	3,262	2,71,260	8	3	68	9	8
By tender	3,785	2,69,855	5	11	53	4	2
By auction	24,119	10,40,703	0	0	50	2	11
Total ...	31,116	15,81,818	14	2	53	2	5

or Rs. 10-5-2 per ton more than in the previous year. The rise in prices is due to the small quantity of timber imported from Upper Burma.

Sales under A-III.

55. Sales of unclaimed drift were—

Teak.

	Logs.	Rs.	A.	P.
Thayetmyo	51	1,488	0	0
Prome	104	1,893	9	3
Toungoo	218	1,622	13	0
Shwegyin	93	839	9	9
Western	199	8,909	2	6
Agency	154	4,911	0	0
Total ...	819	19,664	2	6

Other Woods.

	Logs.	Rs.	A.	P.
Rangoon	185	551	0	0
Toungoo	1	9	14	6
Shwegyin	7	19	0	0
Western	6	26	0	0
Agency	13	245	0	0
Total ...	212	850	14	6

Salvage on logs delivered to claimants amounted to—

	Logs.	Rs.	A.	P.
Thayetmyo	111	339	0	0
Prome	92	210	0	0
Toungoo	609	1,397	8	0
Shwegyin	1,037	2,097	4	0
Western	221	745	8	0
Agency	975	2,577	7	2
Total ...	3,045	7,366	11	2

Storage charges and other miscellaneous revenue amounted to—

	Rs.	A.	P.
Thayetmyo	24	2	0
Prome	83	8	0
Western	585	10	6
	693	4	6
Total ...	28,575	0	8
Add outstanding from previous year	1,317	4	0
	29,892	4	8
Deduct outstanding at close of year	71	12	0
	29,820	8	8

CHAPTER V.

IMPORTS AND EXPORTS OF TIMBER.

Imports.

56. From Upper Burma were imported—

By the Irrawaddy.

	Logs.	
Teak	37,582	
	102,635	converted pieces.
Padauk	917	ditto.
Unreserved wood	205	posts and poles.
	130	converted pieces.
Bamboos	10,850	
Canes	50,800	

By the Sittang.

Teak	29,835

By Sea.

	Tons.
Teak	1,878
Other timber	2,892
Firewood	573
Cutch	68

57. The export of teak from Rangoon amounted to 99,636 tons valued at Rs. 75,12,713, a decrease in quantity of 10 per cent. and in value of 5 per cent. Of the total quantity Bombay took 30 per cent., Europe 29 per cent., Madras 21 per cent., Calcutta 16 per cent., and other ports 4 per cent.

Export of teak.

58. The export of timber other than teak amounted to 6,032 tons valued at Rs. 3,38,993, an increase of 273 per cent. in quantity and 237 per cent. in value, the bulk of the increase representing pyinkado sleepers.

Export of timber other than teak.

59. Cutch was exported to the extent of 248,764 cwt. and to the value of Rs. 40,47,539, an increase of 22 per cent. The export of stick lac amounted to 6,097 cwt., an increase of 29 per cent. Further details are furnished in Appendix C.

Export of cutch and lac.

CHAPTER VI.

FINANCIAL RESULTS.

Financial results.

60. The revenue and expenditure of the year amounted to—

		Rs.
Revenue		22,07,514
Expenditure	(A) 6,91,662 (B) 2,28,925	9,20,587
Surplus ...		12,86,927

The surplus will be reduced by about Rs. 50,000 by a charge on account of the forest share of the Survey party, which is not yet included in the accounts.

Comparison with previous three years.

61. The figures of the previous three years compare as follows:—

Year.	Revenue.	Expenditure.	Surplus.
	Rs.	Rs.	Rs.
1888-89	19,39,488	8,06,198	11,33,290
1889-90	24,01,158	9,05,272	14,95,886
1890-91	21,03,322	7,04,423	13,98,899
1891-92	22,07,514	9,20,587	12,86,927

Comparison with previous year.

62. Timber extracted departmentally yielded 281,605 more, the expenditure incurred was Rs. 1,77,397 more, the result in favour of the year being Rs. 1,04,208. Timber and forest produce extracted by purchasers brought in Rs. 1,60,366 less, the expenditure was Rs. 1,545 more, the result against the year being Rs. 1,61,911.

Drift operations show a revenue Rs. 19,707 less and an expenditure Rs. 6,348 less, the result being Rs. 13,359 against the year.

Under miscellaneous collections the revenue has increased Rs. 2,660 and the expenditure has decreased Rs. 57, the result being Rs. 2,717 in favour of the year.

The expenditure on live-stock, tools and plant, shows an increase of Rs. 4,960, on communications and buildings a decrease of Rs. 10,646, and on demarcation and improvement an increase of Rs. 33,444. The expenditure on establishment increased Rs. 12,455, that on travelling allowances increased Rs. 3,129, and that on contingencies increased Rs. 285.

63. The following statement shows the revenue and expenditure of the year for each division :—

Division.	Revenue.			Expenditure.			Surplus.
	Local collections.	Agency collections.	Total.	Local.	Agency.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Thayetmyo... ...	48,870	1,245	50,115	33,545	8,812	42,357	7,758
Prome	87,013	70,826	1,07,839	90,255	21,879	1,12,134	— 4,295
Tharrawaddy ..	93,819	6,74,317	7,68,136	3,09,148	22,312	3,31,460	4,36,676
Rangoon	35,112	2,34,440	2,69,552	94,012	12,514	1,06,526	1,63,026
Toungoo	2,31,415	5,84,530	8,15,945	2,19,261	20,466	2,39,727	5,76,218
Shwegyin	60,351	27,331	87,682	32,901	7,786	40,687	46,995
Western	82,549	...	82,549	30,523	7,186	37,709	44,840
Agency	...	25,696	25,696	...	9,987	9,987	15,709
Total ...	5,89,129	16,18,385	22,07,514	8,09,645	1,10,942	9,20,587	12,86,927

Summary of receipts and charges.

64. The usual comparison of receipts and charges with those of the last two years is as follows :—

	Receipts.			Charges.			Surplus or Deficit.					
	1889-90.	1890-91.	1891-92.	1889-90.	1890-91.	1891-92.	1889-90.		1890-91.		1891-92.	
							Surplus.	Deficit.	Surplus.	Deficit.	Surplus.	Deficit
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—Departmental timber operations.	17,34,072	13,87,043	16,48,941	6,77,218	4,98,577	6,75,406	10,56,854	...	8,88,466	...	9,73,535	...
II.—Other revenue	6,67,086	7,16,279	5,58,573	76,203	70,025	74,106	5,90,883	...	6,46,254	...	4,84,467	...
III.—Formation and improvement.	...	..	.	1,51,852	1,35,821	1,71,075	...	1,51,852	...	1,35,821	...	1,71,075
Total ...	24,01,158	21,03,322	22,07,514	9,05,273	7,04,423	9,20,587	14,95,885	...	13,98,899	...	12,86,927	...

CHAPTER VII.

General.

Alterations in rules.

65. Notification No. 151, dated the 23rd July 1891, and Notification No 173, dated the 12th August 1891, provided for the establishment of new reserve stations at Inbalwe, Prome, Yandoon, and Kyaiklat.

Notification No. 184, dated the 27th August 1891, allows of the addition of a distinguishing mark to a registered property mark without any extra fee, and Notification No. 36, dated the 9th February 1892, modified the license to carry marking hammers with a view to render detection more easy in the case of an improper use of marking hammer.

Notification No. 211, dated the 24th September 1891, removed "than" from the list of reserved trees, and Notification No. 210 of the same date forbids the manufacture of "thansha" which is used to adulterate cutch.

Notifications Nos. 214 and 215, dated the 25th September 1891, provide a form of license and fix a rate to be paid for the extraction of shaw fibre.

Notification No. 267, dated the 17th November 1891, raised the fee to be paid for the manufacture of charcoal to Rs. 2 per month.

Notification No. 270, dated the 20th November 1891, modified License Forms IV and V.

Notification No. 296, dated the 5th December 1891, withdrew the exception in favour of the extraction of bamboos for sale without payment, and Notification No. 14, dated the 21st January 1892, altered License Forms VI and VII so as to include bamboos and canes and fix a rate for them.

Notification No. 15, dated the 23rd January 1892, altered Rules 12, 15, and 24 and provides a more efficient check on timber in transit.

Notification No. 16, dated the 23rd January 1892, modified the form of sawpit licenses on the issue of which a fee is now paid.

Notification No. 49, dated the 12th February 1892, declared cutch a reserved tree, and Notifications Nos. 47 and 48 of the same date and Notification No. 71, dated the 3rd March 1892, made the consequent alterations in Rule 8 and cancelled the old license form.

Notification No. 311, dated the 9th December 1891, empowered Deputy Commissioners to protect trees along the banks of streams.

Cutch experiment.

66. Another experiment with a view to obtain data regarding the manufacture of cutch was undertaken in the Tharrawaddy division with the following results:—

One cubic foot of cutch timber (of which 25 per cent. is sap wood) produced 1·14 viss of cutch.

One viss of cutch was obtained from 0·88 cubic foot of wood.

One viss of cutch was obtained from 11·18 viss of heart wood.

The average day's work of one cauldron consumed 8·43 cubic feet of wood and produced 9·62 viss of cutch.

In a year of 300 working days the production (at this rate) of cutch would amount to 2,886 viss of cutch involving the consumption of 51 tons of cutch timber besides firewood.

There is a difference between these figures and those obtained last year which may be due to the experiment being undertaken in the rains, whereas last year the work was done in the dry weather. It seems probable that more cutch of better quality is obtained in the cold weather.

Elephants.

67. The year opened with 36 elephants, two were purchased during the year, none died. The average monthly cost was Rs. 40-4-2.

Launch *Forester*.

68. The launch was employed 85 days or 862¼ hours under steam; she earned Rs. 274-6-4 against an expenditure of Rs. 4,528-1-4, of which Rs. 1,580-1-0 were for repairs.

Collection of seeds and specimens.

69. Teak seed was supplied to the Conservator of Forests, Hyderabad Assigned Districts, and to the Conservator of Forests, Tenasserim Circle. Two maunds bamboo seed were sent to the Conservator at Berar and a small quantity to the Victorian Government.

Specimens of forest produce were collected for the Imperial Institute and the Indian Museum, as also for the Forest School Herbarium and the local museum.

Teak market in Europe.

70. Prices for teak squares towards the end of the financial year 1890-91 had declined to only £9 10*s*. to £10, but an improvement set in soon after the middle of 1891, when it became evident that supplies available for the new shipping season would be light in consequence of insufficient rains for floating operations, and rates steadily advanced until they reached about £11 to £11 5*s*. early in 1892. Since then, however, the demand for shipbuilding purposes has been weak, and there being almost an entire suspension of *foreign* rolling-stock orders, prices have somewhat given way, and towards the end of March sellers would probably have accepted £10 10*s*. to £11.

There was very little doing in floating cargoes towards the end of the financial year.

There has been all through the year a fair demand for planks and scantlings of special sizes. Shipments of planks, however, were rather overdone, and stocks at home accumulating, depressed rates. Fair specifications of 9 inches

by 3 inches and upwards sold at about £10 to £12, and special scantlings at £11 to £20 according to sizes.

The latter price is, however, obtainable only for timber of most difficult specification and exceptionally long length.

The Continent has again taken off fully 25 per cent. of the total imports into Europe, France taking the largest share, followed next by Germany, and Holland, Italy, Belgium, and Spain and some other States dividing the rest.

Extra facilities in shipping by the newly established line of Bibby's steamers has been taken advantage of by a number of shippers, and the quantity of timber, chiefly planks and scantlings, going forward *viâ* Suez Canal is continually increasing.

A special feature in the home markets which helped to strengthen rates was the falling off in shipments from Siam.

The Indian markets have been depressed all through the year owing to excessive stocks and an absence of any special demand, but towards the end of March there was a slight revival which, shipments from Burma being moderate, has continued since.

During the year rates fell to almost the lowest level recorded for many years.

Selected Indian squares, the leading class selling at about Rs. 65 in Bombay, Calcutta, and Madras, and only about Rs. 50—55 being obtainable for the inferior Indian qualities. However, the year closed with rates advanced to about Rs. 75 for selected Indian 1st class and Rs. 65 for Indian 2nd class squares. There have been no shipments from Siam to Indian ports during 1891-92.

Controlling staff.

71. The writer of this report held charge of the circle throughout the year. The satisfactory record of work done during the year is a proof that all Divisional Officers have displayed energy and zeal in the performance of their duties. The health of the controlling staff was good on the whole in spite of the exposure they were subject to from frequent rain during the working season. Mr. H. A. Hoghton, Deputy Conservator of Forests, was obliged to go on privilege leave at the close of the year owing to fever and resulting deafness.

Executive and subordinate staff.

72. The executive and subordinate staff suffered more from fever, but with a few exceptions have done good work.

RANGOON:
The 18th June 1892.

P. J. CARTER,
Conservator of Forests, Pegu Circle,

APPENDICES.

ANNUAL FORM NO. 49 [PRESCRIBED].—*Area of Reserved Forests in the Tenasserim and Pegu Circles for the year 1891-92.*

Division.	Range.	Civil district or territory.	Name of forest.	Area on 1st April 1891.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1892.		No. and date of notification of addition or transfer.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
West Salween ...	West Salween	Salween	Wamuchaung	1,920	3	...	...	1,920	3		
			Sinzwè	8,960	14	...	...	8,960	14		
			Kahilu	9,600	15	...	...	9,600	15		
			Minnanwè	3,840	6	...	...	3,840	6		
			Mèwaing	7,360	12	...	...	7,360	12		
			Upper Mèthalauk	8,960	14	...	...	8,960	14		
			Lower Mèthalauk	3,840	6	...	...	3,840	6		
		Shwegyin	Bailakatkyi	8,320	13	...	...	8,320	13		
			Ônkangyi	8,320	13	...	...	8,320	13		
		Amherst ...	Tagèlaung	5,120	8	...	...	5,120	8		
		Salween	Pachaung	25,600	40	...	...	25,600	40		
			Dagwin	6,400	10	...	...	6,400	10		
Salween Attaran ...	East Salween	Amherst	Kamawkala	5,760	9	...	...	5,760	9		
			East Mepalè	38,400	60	...	...	38,400	60		
			Metkanè	17,280	27	...	...	17,280	27		
			Mepalè	25,600	40	...	...	25,600	40		
			Kyaukket	12,160	19	...	...	12,160	19		
			Mègala	6,400	10	...	...	6,400	10		
			Winsaw	6,400	10	...	...	6,400	10		
			Mithawè	12,160	19	...	...	12,160	19		
			South Myawaddi	150	...	...	...	150	...		
			Onkaraing	33,920	53	...	...	33,920	53		
			Gawlè	37,120	58	...	...	37,120	58		
			Baledo	1,600	2	...	...	1,600	2		
	Attaran ...	Amherst	Dali	7,680	12	...	...	7,680	12		
			Pakabo	20,480	32	...	...	20,480	32		
			Natchaung	5,760	9	...	...	5,760	9		
			Gôngyi	27,520	43	...	...	27,520	43		
			Ma-u	8,960	14	...	...	8,960	14		
			Megwa	12,160	19	...	...	12,160	19		
			Thingannyinaung	5,760	9	...	...	5,760	9		
			Kyunchaung	10,880	17	...	...	10,880	17		
			Yè	202,880	317	...	...	202,880	317		
South Tenasserim.	Tavoy-Mergui.	Tavoy-Mergui ...	Mintha	64,000	100	...	...	64,000	100		
			Kaleinaung	294,400	460	...	...	294,400	460	...	Includes Karen area of 12 square miles.
			Ngawunchaung	192,000	300	...	...	192,000	300		
Kado ...	Kado ...	Shwegyin ...	Kywakatchaung	11,520	18	...	...	11,520	18		
			Total Tenasserim Circle.	1,159,190	1,811	...	...	1,159,190	1,811		
			A.—Classed State Forests and Waste Lands. (a) *Reserved Forests.*								
Ayetmyo	Myedè ...	Thayetmyo	Tindaw	2,880	5	...	...	2,880	5		
			Satsuwa	4,800	7	...	...	4,800	7		
			East Yoma	71,680	112	...	...	71,680	112		
	Kama ...	Ditto	Saingdo	1,216	2	...	...	1,216	2		
			Thabala	6,080	9	...	...	6,080	9		
			Mindôn	166,400	260	...	...	166,400	260		
			Ngawet	3,200	5	...	...	3,200	5		
			Total Thayetmyo division ...	256,256	400	...	...	256,256	400		

Prome ...	Nawin .	Prome	Thitkat and Ayodaung ..	2,944	5	...	...	2,944	5	.....	
			Thavetchaung and Nyaung-bindet.	5,286	8	...	...	5,286	8		
			Kywèmido	2,412	4	...	...	2,412	4		
			Nabebyu	3,840	6	...	...	3,840	6		
			Shwelaung and Pwegyin ...	13,120	21	...	...	13,120	21		
			Gwegyo	6,720	10		...	6,720	10		
			Chaungzauk	9,408	15	...		9,408	15		
			Ngaluzan	700	2	..	...	700	2		
			Shwekyundaw	256				256			
			Prome plantation	73		...	...	73			
			East Yoma	97,600	152	...	...	97,600	152	.....	Includes Karen area of 43 square miles.
			Tônye fuel reserve	13,625	21	...	...	13,625	21		
			Pauktaw fuel reserve ...	4,556	7	...	...	4,556	7		
			Sinmizwè fuel reserve ..	7,219	11	...	...	7,219	11		
	Shwele ...	Ditto	Shwele Yoma	35,475	55	...	...	35,475	55	.....	Includes Karen area of 12 square miles.
			Dawlè	1,800	3	...	...	1,800	3		
			Kyaukgyidaung	2,600	4	...	...	2,600	4		
			Padetmyaung	4,500	7	..	...	4,500	7		
			Gwedaukkwin	11,494	18	...	...	11,494	18		
			Kyibyu	2,200	3	.	...	2,200	3		
			Shabaung	2,200	3	...	...	2,200	3		
			Kadinzauk and Kadin Thôn-zin.	3,500	6	...	...	3,500	6		
			Bwet	2,900	5	...	...	2,900	5		
			Upper Padinbin	576	1	...	...	576	1		
			Lower Padinbin	454	1	...	...	454	1		
			Tapan	108	...	...	...	108	...		
		Prome and Tharrawaddy .	Tayôkmaw and Inmaw ...	24,576	38	...	..	24,576	38		
			Total Prome division ...	260,172	407	...	...	260,172	407		
			Karen areas ...	35,200	55	...	...	35,200	55		
			Total area free of taungya privileges.	224,972	352	...	...	224,972	352		
Tharrawaddy ...	Bawbin ..	Tharrawaddy	Taungnyo	107,169	167	...	...	107,169	167	.....	Includes Karen area of 44·02 square miles.
			Minbu-Bawbin	83,331	130	...	...	83,331	130	.....	Includes Karen area of 35·66 miles.
			Thitcho	2,970	5	...	...	2,970	5		
			Kangyi	4,896	8	...	...	4,896	8		
			Myodwin	38	...	...	...	38	...		
			Chaungzauk	3,454	5	...	...	3,454	5		
	Gamôn ..	Ditto	Gamôn	47,757	75	...	...	47,757	75	.....	Includes Karen area of 29·31 square miles.
			Taung	14,016	22	...	...	14,016	22	.....	Includes Karen area of 8·43 square miles.
			Minhla	25,453	40	...	...	25,453	40	.....	Includes Karen area of 6·43 square miles.
			Taukkyan	3,138	5	...	...	3,138	5		
			Thakolan	1,134	2	...	...	1,134	2		
			Chaungnagôn	350	1	...	...	350	1		
			Satpôk	5,356	8	...	...	5,356	8		
			Carried forward ...	299,062	468	...	...	299,062	468		

ANNUAL FORM NO. 49 [PRESCRIBED].—*Area of Reserved Forests in the Tenasserim and Pegu Circles for the year 1891-92*—concluded.

Division.	Range.	Civil district or territory.	Name of forest.	Area on 1st April 1891.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1892.		No. and date of notification of addition or transfer.	Remarks
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles		
			Brought forward	299,062	468	..	.	299,062	468		
THARRAWADDY—*concluded*	Bilin ...	Tharrawaddy	Mokka	22,406	35	...	...	22,406	35	.. ...	Includes Karen area of 10·29 square miles
			Kadin-Bilin	53,363	83	...	...	53,363	83	...	Includes Karen area of 22 33 square miles.
			Kôn-Bilin .	15,987	25	...	...	15,987	25		
			Thônzè	69,734	109	...	...	69,734	109	.. ...	Includes Karen area of 14·80 square miles
			Sitkwin . .	2,837	4	..	...	2,837	4		
			Thindawyo	6,551	10	...	...	6,551	10		
			Total Tharrawaddy division	469,940	734	.	..	469,940	734		
			Karen areas	109,606	171	.	.	109,606	171		
			Total area free of taungya privileges	360,334	563	..	..	360,334	563		
RANGOON	Kinbadi ..	Hanthawaddy	Ôkkan	80,000	125	.	.	80,000	125	...	Includes Karen area of 13 square miles.
			Magavi ..	12,800	20	...		12,800	20		
	Hlaing ...	Ditto	Hlaing Yoma ..	59,520	93	.	..	59,520	93		
			Thabyu fuel reserve ...	8,000	13		...	8,000	13		
			Thitpyat fuel reserve .	1,280	2		...	1,280	2		
			Kyun fuel reserve . ..	8,440	13	...	..	8,440	13		
			Wanetchaung fuel reserve ..	4,750	7		...	4,750	7		
			Hmawbi fuel reserve ..	1,846	3	..	...	1,846	3		
	Paunglin...	Ditto	Kyetpugan . ..	940	1	..	.	940	1		
		Pegu	Paunglin	68,480	107	...	...	68,480	107	.....	Includes Karen area of 7 square miles.
	Pegu ...	Do	Letpan	10,880	17	..	...	10,880	17		
			Kadat	64,000	100	..	...	64,000	100		
			Lower Zamayi	113,280	177	...	...	113,280	177	... .	Includes Karen area of 18 5 square miles.
	Do ..	Tharrawaddy	Upper Zamayi . ..	145,920	228	...	...	145,920	228	... .	Includes Karen area of 88·5 square miles.
			Total Rangoon division .	580,136	906	...	...	580,136	906		
			Karen areas ..	81,280	127	..	..	81,280	127		
			Total area free of taungya privileges .	498,856	780	...	...	498,856	780		
	Thagaya	Toungoo	Kyaukmasin .	20,480	32	..		20,480	32		
			Saing-Yanè	70,741	110		...	70,741	110		
			East Swa .	17,280	27	..	...	17,280	27		
			Lônyan	10,880	17	..	..	10,880	17		
			Sabwin	26,240	41	...	...	26,240	41		
			West Swa .. .	38,400	60	..	.	38,400	60		
			Nyohla	12,160	19		...	12,160	19		
			Kyungôn .	2,560	4	.	...	2,560	4		
			Yetkanzin	...	...	7,680	..	7,680	12	..	Notification No 178F., dated 26th August 1891
			Gwethe	33,280	52	.	...	33,280	52		

Toungoo	Zeyawadi	Ditto	Kabaung	220,800	345	...	..	220,800	345	.....	Includes Karen area of 65 5 square miles.
			Bôndaung	25,600	40	..	...	25,600	40		
			Pyuchaung	59,520	93	...	...	59,520	93	.....	Includes Karen area of 30 square miles.
			Nyaungkyidauk	2,240	4	...	...	2,240	4		
			Kanyutkwin ..	12,800	20	...	...	12,800	20		
	Kyathaungdaung.	Ditto	Thandaung	12,025	19	...	...	12,025	19		
	Bônmadi	Ditto	Kanni	280	...	...	...	280	...		
			Pyuchaung	3,400	5	...	..	3,400	5		
			Gônwe	6,400	10	...		6,400	10		
			Total Toungoo division ...	575,086	899	7,680	...	582,766	911		
			Karen areas .	61,120	95		...	61,120	95		
			Total area free of taungya privileges.	513,966	804	7,680	...	521,646	816		
Shwegyin	Bawni .	Shwegyin	Upper Kanyinmyaung ...	8,320	13	...	...	8,320	13		
			Lower Kanyinmyaung ...	28,800	45	...	.	28,800	45		
			Tôngan	20,480	32	...	...	20,480	32		
			Yenwè	160,000	250	...	...	160,000	250		
			Nyabwa	56,320	88	...	...	56,320	88		
	Kyaukkyi	Ditto	Binbyè	6,400	10	...	...	6,400	10		
	Sittang ...	Ditto	Kyundaung	4,800	7	...	..	4,800	7		
			Total Shwegyin division ...	285,120	445	...	...	285,120	445		
Total Pegu Circle.	...	(a) Area free of taungya privileges		2,139,504	3,313	7,680	...	2,147,184	3,355		
		(b) Karen area		287,206	449	..	...	287,206	449		
		(c) Total area		2,426,710	3,792	7,680	...	2,434,390	3,804		
Total Tenasserim Circle.	...	(a) Area free of taungya privileges		1,151,510	1,799	...	...	1,151,510	1,799		
		(b) Karen area		7,680	12	...	...	7,680	12		
		(c) Total area		1,159,190	1,811	...	...	1,159,190	1,811		
Grand Total Lower Burma.	...	(a) Area free of taungya privileges		3,291,014	5,142	7,680	...	3,298,694	5,154		
		(b) Karen area		294,886	461	...	...	294,886	461		
		(c) Total area		3,585,900	5,603	7,680	.	3,593,580	5,615		

ANNUAL FORM NO. 50 [PRESCRIBED].—*Prosecutions for Breaches of Forest Rules in the Tenasserim Circle for the year 1891-92.*

Forest division and civil district.		Cases pending from 1890-91.	New cases of the year. Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission, or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total cases.	Disposed of during the year. Convictions. Cases.	Convictions. Persons.	Acquittals. Cases	Acquittals. Persons.	Total. Cases.	Total. Persons.	Cases pending at close of year	Remarks.
Salween-Attaran division, Amherst district	a	..	...	21	...	.	21	21	11	20	10	10	21	30	.	
	b	...	..	122	...	..	122	122	122	122	...	...	122	122		
	c	.	.			.			..		...				..	
Total		...		143			143	143	133	142	10	10	143	152		
West Salween division	a	...		...				..	..	...	...	.	...	..	..	
	b	..	.	.	1		1	1	1	1	...	..	1	1		
	c	.	.						.		..	...	..	...		
Total		.	.	...	1		1	1	1	1		..	1	1	..	
Kado division, Amherst district	a	.	...	2	.	113	115	115	115	128	...	...	115	128		
	b	. .	..	14	..	3	17	17	17	20	..		17	20	.	
	c	...	.				...	...						.		
Total			.	16		116	132	132	132	148		..	132	148		
South Tenasserim division, Tavoy district	a	...	...	...	...	...	...		.	...	..	...	..	...	...	
	b	...	..	16	...	...	16	16	16	39	..	...	16	39	...	
	c	..	...	...	...	...	..	...	...	...	...	...	..	..	..	
Total		.	...	16	..	.	16	16	16	39	.	...	16	39	...	
South Tenasserim division, Mergui district	a	...	...	7	...	..	7	7	5	6	2	2	7	8	...	
	b	...	...	...	...	...	...	...	...		...	...	..	...	...	
	c	...	..	...	...	...	...		..	..	...	...	...	..	...	
Total			...	7	...	..	7	7	5	6	2	2	7	8		
GRAND TOTAL TENASSERIM CIRCLE		...	...	182	1	116	299	299	287	336	12	12	299	348	...	

One hundred and fifty-six cases were compounded under Rule 66 of the forest rules; Rs. 6,714 were paid as compensation.

a Cases prosecuted before Magistrates. | *b* Cases compounded. | *c* Cases undetected.

ANNUAL FORM NO. 50 [PRESCRIBED.]—*Prosecutions for Breaches of Forest Rules in the Pegu Circle for the year 1891-92.*

Forest division.		Cases pending from 1890-91.	New cases of the year. Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total cases.	Disposed of during the year. Convictions. Cases.	Convictions. Persons.	Acquittals. Cases.	Acquittals. Persons.	Total. Cases.	Total. Persons.	Cases pending at close of year.	Remarks.
Thayetmyo district	a	...	1	73	...	...	74	74	62	84	12	12	74	96	...	
	b	...	...	184	...	..	184	184	184	184	...	...	184	184	...	
	c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		...	1	257	...	...	258	258	246	268	12	12	258	280	...	
Prome district	a	...	...	33	...	...	33	33	28	40	3	7	31	47	*	* Accused in two cases absconded.
	b	...	...	443	...	...	443	443	426	428	...	...	426	428	11†	† Five men absconded and one was convicted in another case.
	c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		...	..	476	..	...	476	476	454	468	3	7	457	475	11	
Tharrawaddy district	a	2	2	9	...	...	11	13	11	15	1	8	12	23	1	
	b	27	...	103	1	24	128	155	124	170	...	...	124	170	31	
	c	.	3	6	...	1	10	10	...	...	...	...	...	...	...	
		29	5	118	1	25	149	178	135	185	1	8	136	193	32	
Rangoon, Hanthawaddy district	a	2	..	...	1	...	1	3	3	17	...	1	3	18	...	
	b	...	...	26	1	...	27	27	27	49	...	...	27	49	...	
	c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		2	...	26	2	...	28	30	30	66	...	1	30	67	...	
Toungoo district	a	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	b	...	.	22	...	...	22	22	22	30	...	...	22	30	...	
	c	...	...	...	...	...	..	...	..	.	...	...	...	...	...	
		...	...	22	..	...	22	22	22	30	...	...	22	30	...	
Shwegyin ditsrict	a	1	...	17	...	3	20	20	19	19	1	1	20	20	...	The case pending at the close of 1890-91 was struck off as it was not a case prosecuted by the department. Absconded.
	b	...	...	35	...	3	38	38	38	38	...	...	38	38	...	
	c	...	...	1	..	...	1	1	...	...	...	...	...	...	...	
		1	..	53	..	6	59	59	57	57	1	1	58	58	...	
Western — Bassein district	a	...	...	15	...	...	15	15	15	18	...	...	15	18	...	
	b	...	...	5	..	...	5	5	5	5	...	...	5	5	...	
	c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Western — Henzada district	a	1	...	11	...	...	11	12	12	26	...	...	12	26	...	
	b	...	...	9	...	...	9	9	9	10	...	...	9	10	...	
	c	...	...	...	...	...	...	.	...	...	...	...	...	...	...	
		1	...	40	...	...	40	41	41	59	...	...	41	59	...	
GRAND TOTAL PEGU CIRCLE	a	6	3	158	1	3	165	170	150	219	17	29	167	248	1	
	b	27	...	837	2	27	856	883	835	914	...	...	835	914	42	
	c	...	3	7	...	1	11	11	.	.	...	...	...	...	...	
GRAND TOTAL LOWER BURMA		33	6	1,174	4	147	1,331	1,363	1,272	1,469	29	41	1,301	1,510	43	

(a) Means cases taken into Court. | (b) Means cases disposed of under section 67 of the Indian Forest Act, 1878. (c) Means undetected cases.

ANNUAL FORM NO. 51—[PRESCRIBED].—*Area of Forest Tracts protected from Fire during the dry Season 1891-92.*

Division.	Forest tract.	Year in which protection commenced.	Area actually protected up to 15th June 1891.	During dry season of 1892.			Cost during the season.	Remarks.
				Area attempted to be protected.	Failures.	Actually protected.		
	TENASSERIM CIRCLE.	Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	
WEST SALWEEN	Sinzwè reserve	1871	7,992	8,960	5	8,955	1,028	
	Wamu reserve	1871	1,920	1,920	.....	1,920	339	
	Kahilu reserve	1878	2,536	2,560	.....	2,560	297	
	Mèwaing reserve	1877	7,357	7,360	.....	7,360	459	
	Minanwè reserve	1878	3,790	3,840	.....	3,840	45	
	Ônkangyi reserve	1877	5,336	6,300	.....	6,300	518	
	Bilakatkyi reserve	1877	400	6,656	.....	6,656	327	
	Tagèlaung reserve	1885	2,622	3,072	.....	3,072	346	
SALWEEN-ATARAN	West Mepalè reserve	1881	25,507	25,600	.....	25,600	2,219	
	Mithawè reserve	1890	7,670	7,680	.....	7,680		
	Kyunchaung reserve	1880	7,590	7,600	.....	7,600	2,504	
	Dali reserve	1878	300	7,000	.....	7,000		
	Natchaung reserve	1883	.....	1,800	.....	1,800		
	Gôngyi reserve	1889	.....	.....	.....	.....		
	Thingannyinaung reserve	1890	250	250	.....	250		
	Total ...	.....	73,270	90,598	5	90,593	8,082	

ANNUAL FORM NO. 51 [PRESCRIBED].—*Area of Forest Tracts protected from Fire during the dry season of 1891-92*—concluded.

Division.	Forest tract.	Year in which protection commenced.	Area actually protected up to 15th June 1891.	During dry season of 1892. Area attempted to be protected.	Failures.	Actually protected.	Cost during the season.	Remarks.
	PEGU CIRCLE.		Acres.	Acres.	Acres.	Acres.	Rs.	
THAYETMYO	Tindaw	1890	4	2,880	2,880	.....	146	
	East Yoma	1892	.....	17,920	.....	17,920	185	
PROME	Prome plantation	1857	65	75	....	75	24	
	Chaungzauk reserve	1879	8,452	9,408	40	9,368	2,148	
	Bwet	1877	8,382	8,416	70	8,346	1,624	
	Gwedaukkwin	1886	3,677	4,008	.....	4,008	925	
	Kyaukkyidaung	1886	1,180	2,180	.....	2,180	790	
THARRAWADDY	Nyanlè	1877	4,518	5,050	11	5,039	1,038	
	Lower Payagyi	1888	3,404	3,408	.....	3,408	763	
	Bawbin	1869	970	2,225	.....	2,225	389	
	Gwedauksan	1876	285	285	.....	285	102	
	Kangyi	1877	4,806	4,914	.....	4,914	987	
	Myojwin	1869	60	60	.....	60	48	
	Myaung	1876	1,860	1,860	.....	1,860	340	
	Minhla	1876	4,492	6,172	295	5,877	356	
	Môkka	1873	10,343	13,152	.....	13,152	605	
	Kadin-Bilin	1873	7,326	10,289	.....	10,289	613	
	Kôn-Bilin	1876	2,339	4,381	.....	4,381	457	
	Thônzè	1876	12,396	16,841	.....	16,841	586	
RANGOON	Magayi	1872	3,093	3,367	.....	3,367	1,865	
	Kyetpyugan	1868	931	940	.....	940	854	
	Dawè	1885	12,736	31,238	.....	31,238	150	
	Tedaw-Sinzwè	1886	6,390	9,600	.....	9,600	200	
TOUNGOO	Saing Yanè	1877	33,540	33,600	.....	33,600	3,514	
	East Swa	1883	14,236	17,280	.....	17,280	2,178	
	Bôndaung	1884	10,830	10,880	37	10,843	1,242	
	Kabaung	1884	2,510	2,560	.....	2,560	399	
	Pyunchaung	1877	3,440	3,440	.....	3,440	590	
SHWEGYIN	Kyundaung	1890	4	3,840	.....	3,840	144	
	Total	.....	162,269	230,269	3,333	226,936	23,262	
	GRAND TOTAL LOWER BURMA	.....	235,539	320,867	3,338	317,529	31,344	

ANNUAL FORM NO. 52 (PRESCRIBED].—*Statement showing the Area of Plantations in the Tenasserim Circle for the year 1891-92.*

Division.	Name of plantation	Area in acres: On 1st April 1891.	Area in acres: Added during the year.	Area in acres: Excluded during the year	Area in acres: Area on 31st March 1892.	Receipts (Of the year.)	Charges (Of the year.)	Remarks.
	Regular Plantations.					Rs	Rs.	
SALWEEN-ATTARAN ...	Thingannyinaung	16		.	16		.	
KADO	Shwegun	5			5	...	..	
	Kalôn island	2	..	...	2	..	..	
	Total .	7		...	7			
	Cultural Operations.							
	Mergui experimental plantation	111	...	...	111	181	854	
	Total ...	111	..		111	181	854	
	Total Regular Plantations ..	23	.	...	23	.	...	
	Total Cultural Operations ...	111	...	..	111	181	854	
	Total Taungya Plantations ...	6,770	1,504	.	8,274	.	15,337*	* Rupees 5,481 were not disbursed before the close of the year.
	GRAND TOTAL ...	6,904	1,504	.	8,408	181	16,191	

ANNUAL FORM NO. 52 [PRESCRIBED].—*Statement showing the Area of Plantations in the Pegu Circle for the year 1891-92.*

Division.	Name of plantation.	Area in acres. On 1st April 1891.	Added during the year.	Excluded during the year.	Area on 31st March 1892.	Receipts. Of the year.	Charges. Of the year.	Remarks.
	Regular Plantation.					Rs. A. P.	Rs.	
PROME	Prome	73	.....	.....	73	.....	6	
THARRAWADDY	Bawbin	340	.....	.....	340	.....	.....	
	Kywèmakaing	144	.....	.....	144	.....	62	
	Myodwin	10	.....	.....	10	.....	5	
	Total	494	.....	.....	494	.....	67	
RANGOON	Kyetpyugan	801	.....	.....	801	.....	887	
	Magayi	1,739	32	.....	1,771	.....	2,537	
	Total	2,540	32	.....	2,572	.....	3,425	
TOUNGOO	Kanni	65	.....	.....	65	.....	.....	
	Pyunchaung	701	.....	.....	701	.....	.....	
	Yenè	9	.....	.....	9	.....	.....	
	Total	775	.....	.....	775	.....	.....	
ARAKAN	Myauktaing	10	.....	.....	10	.....	.....	
	Total Regular Plantations	3,892	32	.....	3,924	.....	3,498	
	Cultural Operations.							
PROME	Chaungzauk	.....	.....	.....	.....	.....	.....	
	Kadinzauk	300	.....	.....	300	.....	.....	
	Bwet	600	.....	.....	600	.....	109	
	Total	900	.....	.....	900	.....	109	
THARRAWADDY	Pazingyè	125	.....	.....	125	.....	.....	
	Nyanlè	830	.....	.....	830	.....	1,190	
	Kangyi	350	.....	.....	350	.....	.....	
	Môka	800	.....	.....	800	.....	34	
	Bilin	208	.....	.....	208	.....	.....	
	Kôn-Bilin	82	80	12	150	.....	1,930	Add seed Rs. 91 paid for last year.
	Gamôn	.....	21	.....	21	.....	67	
	Total	2,395	101	12	2,484	.....	3,221	
RANGOON	Rangoon	..	.....	.....	.....	.....	171	
	Total Cultural Operations	3,295	101	12	3,384	.....	3,501	
	Total Regular Plantations	3,892	32	.....	3,924	.....	3,498	
	Total Cultural Operations	3,295	101	12	3,384	.....	3,501	
	Total Taungya Plantations	15,482	1,702	.....	17,184	.....	49,455	
	Total Pegu Circle	22,669	1,835	12	24,492	.....	56,454	

ANNUAL FORM NO. 52A.—*Statement of Taungya, Teak, Thitka, and Padauk Plantations in the Tenasserim Circle for the year 1891-92.*

Division.	Name of reserve.	Year of formation.	Area on 1st April 1891.	Area planted with teak, &c., during 1891-92.	Cost up to 1890-91. Original cost.	Cost up to 1890-91. Maintenance.	Cost during 1891-92. Original cost.	Cost during 1891-92. Maintenance.	Total cost	Average cost per acre up to 1891-92.	Area on 31st March 1892.	Remarks.
			Acres.	Acres.	Rs.	Rs	Rs.	Rs.	Rs.	Rs. A. P	Acres.	
West Salween	Sinzwè	1869-70	1,597	240	7,193	7,201	1,910	1,572	17,876	9 11 8	1,837	Of the cost for the year in the West Salween division Rs. 5,089 was not disbursed before the close of the year
	Wamu	1877-78	55	..	270	146	...	...	416	7 9 0	55	
	Kahilu	1879-80	242	..	1,140	1,479	...	61	2,680	11 1 2	242	
	Ônkangyi	1877-78	1,048	297	4,035	2,184	1,067	382	7,668	5 11 3	1,315	
	Bilakatkyi	1877-78	635	171	1,813	1,065	563	268	3,709	4 9 8	806	
	Minanwe	1877-78	113	...	436	115	..	...	551	4 14 0	113	
	Mèwaing	1878-79	1,032	242	6,194	1,753	2,273	963	11,183	8 12 5	1,274	
	Tagèlaung	1889 90	268	126	1,331	230	602	314	2,277	5 12 2	394	
	Total ...	...	4,990	1,076	22,312	14,173	6,315	3,560	46,360	7 10 3	6,066	
Salween-Attaran	Dali	1877-78	273	23	1,257	461	178	205	2,161	7 4 10	296	Of the cost for the year in the Salween-Attaran division Rs 392 was not disbursed before the close of the year.
	Kyunchaung	1881-82	269	25	2,188	771	221	205	3,385	11 8 3	294	
	Pakabo	1883-84	3	...	11	7	..	...	18	6 0 0	3	
	Natchaung	1888-89	67	8	375	94	75	56	600	7 14 4	75	
	Gôngyi	1888-89	34	.	174	43	..	.	217	6 6 1	34	
	Thinganoyinaung	1888-89	65	*	557	151	168	161	1,037	15 15 3	65	
	Total ...	...	711	56	4,562	1,527	642	687	7,418	9 10 6	767	
East Salween	West Mepalè	1882 83	1,031	330	6,797	4,607	1,926	1,951	15,281	11 3 8	1,361	
	Methawè	1890-91	30	42	216		196	60	502	6 15 7	72	
	Total ...	..	1,061	372	7,043	4,607	2,122	2,011	15,783	11 0 3	1,433	
	Plantations other than Teak.											
West Salween ...	Kahilu	1883-84	6	...	35	14	...	..	49	8 2 8	6	
Salween-Attaran ...	Dali	1886-87	2	...	14	..	...	..	14	7 0 0	2	
	Total ...	...	8	.	49	14	..	...	63	7 14 0	8	
	GRAND TOTAL ...	...	6,770	1,504	33,966	20,321	9,079	6,258	69,624	8 6 7	8,274	

* 95 5 acres were cleared and planted during the year, but being flooded were a total failure.

ANNUAL FORM NO. 52A [PRESCRIBED].—*Statement of Taungya, Teak, Cutch, &c., Plantations in the Pegu Circle for the year 1891-92.*

Division.	Name of forest.	Area in acres. On 1st April 1891.	Added during the year.	Excluded.	Area on 1st March 1892.	Cost up to 1890-91. Original cost	Maintenance.	Cost during 1891-92. Original cost.	Maintenance.	Total.	Average per acre.
						Rs.	Rs	Rs.	Rs.	Rs.	Rs A. X.
PROME	Chaungzauk	926	162	..	1,088	5,511	5,758	2,896	1,874	16,039	14 11 11
	Bwet	988	68	...	1,056	8,718	2,625	385	791	12,519	11 13 8
	Shwele Yoma	...	...	...	...	76	...	...	...	76	...
	Padetmyaung	54	...	...	54	375	46	...	81	502	9 4 9
	Kyaukkyidaung	10	...	...	10	84	20	...	...	104	10 6 5
	Total ...	1,978	230	...	2,208	14,764	8,449	3,281	2,746	29,240	13 3 11
THARRAWADDY	Nyanlè	986	138	..	1,124	11,610	5,103	1,225	1,203	19,141	17 0 6
	Taungnyo Yoma	...	...	...	...	135	59	...	...	194	...
	Thitcho	15	...	...	15	70	...	...	4	74	4 14 11
	Gwedanksan	81	...	...	81	899	637	...	106	1,642	20 4 4
	Bawbin-Kyaukpyu	...	...	...	...	118	10	...	...	128	...
	Bawbin-Chaungywa	673	77	...	750	7,703	3,231	668	864	12,466	16 9 11
	Lower Payagyi	377	69	...	446	4,598	1,002	515	657	6,772	15 2 11
	Kangyi	334	...	..	334	3,083	2,719	...	363	6,165	18 7 3
	Myodwin	9	1	..	10	99	40	9	13	161	16 1 7
	Myaung	349	...	...	349	4,497	2,864	...	940	8,301	23 12 1
	Minhla	2,046	172	...	2,218	22,978	10,046	1,551	4,552	39,127	17 10 3
	Mokka	3,058	49	...	3,107	31,128	18,550	525	10,903	61,105	19 10 8
	Kadin-Bilin	1,014	61	...	1,075	11,895	6,617	615	2,971	22,098	20 8 11
	Kon-Billin	333	.	..	333	3,001	3,300	...	421	6,721	20 2 11
	Thônzè	765	164	...	929	8,174	3,994	1,394	1,617	15,175	16 3 0
	Teak seed	...	..	..	...	...	...	508	...	508	...
	Total ...	10,040	721	..	10,771	109,988	58,172	7,019	24,613	1,99,783	18 8 9
RANGOON	Zamayi	1,073	187	...	1,260	12,363	2,029	1,867	1,516	17,775	14 1 8
	Teak seed	...		..	...	...	...	239	...	239	...
	Total ...	1,073	187		1,260	12,363	2,029	2,106	1,516	18,014	14 4 9
	Teak taungyas carried over .	13,091	1,148	...	14,239	1,37,116	68,650	12,398	28,875	2,47,037	...

Minhla area corrected by 17 acres. Rupees 990 shown last year for seed were distributed,—Rs. 852 to teak taungyas, Rs. 46 to teak and cutch taungyas, and Rs. 92 to sowings. Under maintenance Rs. 27 have been transferred to teak and cutch yas.

ANNUAL FORM No. 52A [PRESCRIBED].—*Statement of Taungya, Teak, Cutch, &c., Plantations in the Pegu Circle for the year 1891-92*—concluded.

Division.	Name of forests.	Area in acres. On 1st April 1891.	Added during the year.	Excluded.	Area on 1st March 1892.	Cost up to 1890-91. Original cost.	Maintenance	Cost during 1891-92. Original cost.	Maintenance.	Total.	Average per acre.
						Rs.	Rs.	Rs.	Rs	Rs.	Rs A. P.
Toungoo	Yanè	181	73	...	254	2,048	798	845	260	395	15 8 11
	Myohla	10	...	...	10	55	45		36	136	13 9 7
	East Swa	177	59	.	236	1,536	1,145	710	93	3,484	14 12 2
	Bôndaung	24	..	...	24	189	166	...		355	14 12 8
	Kabaung	206	...	...	206	1,838	591	...	170	2,599	12 9 10
	Pyunchaung	9	...	...	9	426	145	...	46	617	68 8 11
	Plantation boards	...	...	...	.	180	41	...	...	221	.
	Total	607	132	.	739	6,272	2,931	1,555	605	11,363	...
Shwegyin	Kyundaung	...	...	..	...	150	15		20	185	..
	Total Teak Taungyas	13,698	1,280	...	14,978	1,43,537	71,596	13,952	29,500	2,58,585	17 4 3
Thayetmyo	Satsuwa	2	...	..	2	31	4	..	...	35	17 8 0
Prome	Chaungzauk	38	...	..	38	350	317	...	.	667	17 8 10
Tharrawaddy	Kangyi	13	...		13	154	2	...	23	179	13 12 2
Toungoo	Pyunchaung	2	.		2	29	27	...	...	56	18 0 0
	Total Cutch Taungyas	55	...	..	55	564	350		23	937	17 0 7
Thayetmyo	Tindaw	216	109	...	325	2,101	493	934	487	4,015	12 5 8
	East Yoma	95	291	..	386	735	..	2,237	122	3,094	8 0 3
	Total	311	400		711	2,836	493	3,171	609	7,109	10 0 0
Prome	Chaungzauk	590	...	.	590	3,839	4,597	...	459	8,895	15 1 3
	Kyaukkyidaung	328	...	.	328	2,620	2,284	...	579	5,483	16 11 5
	Padetmyaung	471	...	.	471	3,848	3,202	...	684	7,734	16 0 0
	Bwet	11	...		11	108	...	...	308	416	37 13 1
	Total	1,400	...	...	1,400	10,415	10,083	...	2,030	22,528	16 1 6
Tharrawaddy.	Pazingyi	12	.	...	12	108	49	..	...	157	13 1 4
	Kangyi	6	22	..	28	103	48	170	..	321	11 7
	Total	18	22	..	40	211	97	170		478	11 15 2
Toungoo	Saing-Yanè	...	..		..	73	21	...	..	94	..
	Total Teak and Cutch Taungyas	1,729	422	...	2,151	13,535	10,694	3,341	2,639	30,209	...
	Grand Total Pegu	15,482	1,702	...	17,184	1,57,636	82,640	17,295	32,162	2,89,731	...

ANNUAL FORM No. 54.—*Statement of Outturn (in cubic feet solid) of Timber and Fuel in the Tenasserim Circle for the year 1891-92 and Agency of Exploitation.*

Division.	Timber in the rough logs.					Timber in the rough poles.					Sawn or squared timber.					Miscellaneous.					Fuel.					Total.
	Government agency.	Purchasers.	Free grantees.	Right-holders.	Total.	Government agency.	Purchasers.	Free grantees.	Right-holders.	Total.	Government agency.	Purchasers.	Free grantees.	Right-holders.	Total.	Government agency.	Purchasers.	Free grantees.	Right-holders.	Total.	Government agency.	Purchasers.	Free grantees.	Right-holders.	Total.	Outturn.
I.—Reserved Forests.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Salween-Attaran	199,739	...	...	21,100	2,20,839	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..		...	220,839
West Salween	68,421	...	...	...	68,421	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	68,421
South Tenasserim	4,395	19,987	...	...	24,382	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24,382
Total ...	272,555	19,987	...	21,100	313,642	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	.	.	313,642
II.—Protected Forests.																										
Nil.																										
III.—Unreserved Forests.																										
Salween-Attaran	375,919	653,100	400	52,253	1,081,672	...	...	...	...	...	2,005	...	...	...	2,005	..	...	...	...	...	...	20,614	...	...	20,614	1,104,291
West Salween	73,602	20,793	900	..	95,295	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	95,295
Kado	36,134	270,116	...	...	306,250	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,875	...	...	1,875	308,125
South Tenasserim	...	632,213	700	...	632,913	...	...	...	...	...	4,603	...	...	...	4,603	...	...	...	...	...	...	2,040	...	...	2,040	639,556
Total ..	485,655	1,576,222	2,000	52,253	2,116,130	...	...	..	...	...	6,608	...	...	...	6,608	...	..	...	...	...	...	24,529	...	...	24,529	2,147,267
Grand Total ..	758,210	1,596,209	2,000	73,353	2,429,772	..	...	...	..	...	6,608	...	...	...	6,608	...	...	..	...	...	...	24,529	...		24,529	2,460,909

Charcoal should be shown by its equivalent in fuel, the quantity of wood consumed in producing it being entered in cubic feet solid.

ANNUAL FORM NO. 54.—*Statement of Outturn (in cubic feet solid) of Timber and Fuel in the Pegu Circle for the year 1891-92 and Agency of Exploitation.*

Division.	Description of material.	Timber in the rough logs.					Timber in the rough poles.					Sawn or squared timber.					Miscellaneous.					Fuel.					Total.
		Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Outturn.
	I.—Reserved Forests.	C. ft.	C. ft.	C. ft.	C. ft	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft	C. ft	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft	C. ft.	C. ft	C. ft	C. ft.	C. ft.
Prome	Reserved woods	...	1,685	...	...	1,685	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	1,685
	Unreserved woods	...	45,550	...	...	45,550	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	45,550
Tharrawaddy	Teak	707,435	...	...	...	707,435	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	707,435
	Reserved woods	1,937	1,559	...	...	3,496	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3,496
	Unreserved woods	50	30,225	...	...	30,275	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36,900	...	...	36,900	67,175
Rangoon	Teak	215,826	...	...	...	215,826	7,866	...	...	...	7,866	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	223,692
	Reserved woods	5,511	...	...	...	5,511	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5,511
	Unreserved woods	18,600	171,220	...	...	189,820	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	245,300	...	...	245,300	435,120
Toungoo	Teak	...	191,092	...	...	191,092	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	191,092
	Unreserved woods	...	...	...	3,160	3,160	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total ...	949,359	441,331	...	3,160	1,393,850	7,866	...	...	...	7,866	...	...	...	...	...	...	...	...	...	...	282,200	...	...	282,200	1,680,756
	II.—Unreserved Forests.																										
Thayetmyo	Teak	78,732	5,350	...	...	84,082	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	84,082
	Reserved woods	...	2,926	...	...	2,926	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,926
	Unreserved woods	...	915,840	...	...	915,840	...	24,220	...	...	24,220	...	...	...	...	...	...	...	...	...	...	75,300	...	...	75,300	1,015,360
Prome	Teak	94,217	1,287	477	...	95,981	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	95,981
	Reserved woods	...	145	...	...	145	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	145
	Unreserved woods	...	344,835	...	...	344,835	...	1,277	...	...	1,277	...	65,375	...	...	65,375	...	...	...	...	...	79,800	...	...	79,800	491,287
Tharrawaddy	Teak	243,473	28,961	5,000	...	277,434	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	277,434
	Reserved woods	...	9,432	...	...	9,432	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9,432
	Unreserved woods	...	782,225	...	...	782,225	...	312	...	...	312	...	5,767	...	...	5,767	...	...	...	...	...	78,200	...	...	78,200	866,504

RANGOON	Teak	1,620	156	254	...	2,030	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,030
	Reserved woods	...	12,747	...	...	12,747	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	12,747
	Unreserved woods	...	281,190	...	...	281,190	...	100	...	...	100	...	...	...	..	...	...	...	...	.	...	...	243,300	...	...	243,300	524,590
TOUNGOO	Teak	492,648	258,977	1,317	...	752,942	...	...	...	...	.	...	...		..	...		...	...	...	...	...	...	..	...	...	752,942
	Reserved woods	...	93,894	700	...	94,594	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	94,594
	Unreserved woods	...	846,845	...	.	846,845	...	9,325	...	..	9,325	...	...	..	...	...	...	...	..	...	...	...	68,475	...	..	68,475	924,645
SHWEGYIN	Teak	68,464	58,686	850	...	128,000	...	...	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	128,000
	Reserved woods	...	37,770	4,250	...	42,020	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	42,020
	Unreserved woods ... , ...	...	753,580	.	...	753,580	...	1,850	...	...	1,850	..	...	..	...	...	...	...	...	...	...	...	157,150	...	...	157,150	912,580
WESTERN	Teak	3,952	6,357	700	...	11,009	...	...	...	...	...	.	...	...	.	...	.	...	...	...	.	...	...	...	.	...	11,009
	Reserved woods	..	21,581	3,275	...	24,856	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	24,856
	Unreserved woods	363	1,591,315	...	...	1,591,678	...	759,946	...	...	759,946	...	...	...	...	...	..	...	...	...	...	...	63,000	...	..	63,000	2,414,624
AGENCY ...	Unreserved woods	...	9,020	...	...	9,020	...	2,515	...	...	2,515	..	..	...	...	...	..	...	...	...	..	...	1,730,080	...	...	1,730,080	1,742,515
	Total ...	983,469	6,064,019	16,823	...	7,064,311	...	799,545	...	..	799,545	...	71,142	.	...	71,142	...	.	...	..	..	...	2,495,305	...	...	2,495,305	10,430,303
	TOTAL, RESERVED FORESTS.																										
	Teak	923,261	191,092	.	...	1,114,353	7,866	...	...	...	7,866	...	.	...		...	...	...	..	...	..	...	..	...	...	...	1,122,219
	Reserved woods	7,448	3,244	...	...	10,692	...	...	...	...	...	...	...	..	...	...	..	...	...	...	..	..	...	...	...	..	10,692
	Unreserved woods	18,650	246,995	...	3,160	2,268,805	..	.	...	.	...	...	...	...	...	..	...	...	...	...	..	...	282,200	...	..	282,200	547,845
	Total ...	949,359	441,331	...	3,150	1,393,850	7,866			...	7,866	..	...	...	.	...	..	..	...	..	...	..	282,200	...	.	282,200	1,680,756
	TOTAL, UNRESERVED FORESTS																										
	Teak	983,106	359,774	8,593	...	1,351,478	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1,351,478
	Reserved woods	...	178,495	8,225	...	186,720	...	...	..	...	...	...	...	...	.	...	...	...	...		.	...	...	...	...	...	186,720
	Unreserved woods	363	5,525,750	...	...	5,526,113	...	799,545	...	...	799,545	...	71,142	...	...	71,142	...	.	...		.	...	2,495,305	...		2,495,305	8,892,105
	Total ...	983,469	6,064,019	16,823	...	7,064,311	...	799,545	..	...	799,545	...	71,142	...	...	71,142	..	..	...	...	..	..	2,495,305	..	...	2,495,305	10,430,303
	GRAND TOTAL.																										
	Teak	1,906,367	550,866	8,593	...	2,465,831	7,866	...	...	...	7,866	...	...	...	...	...	...	..	...	...	...	...	...	.	...	...	2,473,697
	Reserved woods	7,448	181,739	8,225	...	197,412	...	...	.	.	...	...	...	...	...	...	...	.		.	...	...	...	...	...	...	197,412
	Unreserved woods	19,013	5,772,745	...	3,160	5,794,918	...	799,545	..	.	799,545	...	71,142	.	...	71,142	.	.	.	...	.	...	2,777,505	...	..	2,777,505	9,439,950
	Total ...	1,932,828	6,505,350	16,823	3,160	8,458,161	7,866	799,545	...	...	807,411	...	71,142	...	...	71,142	..	...	...	.	..	..	2,777,505	...	..	2,777,505	12,111,059

ANNUAL FORM NO. 55 [PRESCRIBED].—*Statement showing Outturn of Minor Forest Produce in the Tenasserim Circle for the year 1891-92.*

Division.	Description of produce.	Produce removed or utilized										Remarks.
		By Government agency.		*By purchasers.*		*By free grants.*		*By right-holders.*		*Total.*		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
	I.—REVERVED FORESTS.		Rs.		Rs.		Rs.		Rs.		Rs.	
SOUTH TENASSERIM.	Bamboos	...	...	7,470	19	...	...	...	...	7,470	19	
	Canes	...	...	280,000	95	...	...	...	...	280,000	95	
	Cardamom	...	...	...	50	...	...	...	...	...	50	
	Grazing head of cattle	...	...	20	10	...	...	...	...	20	10	
	Total ...	...	...	287,490	174	...	...	...	...	287,490	174	
	II.—PROTECTED FORESTS. *Nil.*											
	III.—UNRESERVED FORESTS.											
SALWEEN-ATARAN. KADO SOUTH TENASSERIM.	Bamboos	...	...	40,730	102	...	...	...	...	40,730	102	
				315,478	789	...	...	...	...	315,478	789	
				68,520	149	...	...	...	...	68,520	149	
	Total ...	...	...	424,728	1,040	...	...	...	...	424,728	1,040	
SALWEEN-ATARAN. KADO. SOUTH TENASSERIM.	Kanyin-oil	...	...	...	246	...	...	...	...	...	246	
				...	4	...	...	...	...	...	4	
				...	5,473	...	...	...	...	...	5,473	
	Total ...	...	...	...	5,723	...	...	...	...	...	5,723	
KADO SOUTH TENASSERIM.	Canes	...	...	...	1	...	...	...	...	...	1	
				993,400	220	...	...	...	...	993,400	220	
	Total ...	...	...	993,400	221	...	...	...	...	993,400	221	
KADO ...	Shaw fibre	...	...	...	15	...	...	...	...	...	15	
SOUTH TENASSERIM.	Cardamom	...	...	...	680	...	...	...	...	...	680	
	Pyu bark ... ... Viss	...	...	2,300	230	...	...	...	...	2,300	230	
	Ôndôn bark ... ... "	...	...	1,060	106	...	...	...	...	1,060	106	
	Total ...	...	...	3,360	1,016	...	...	...	...	3,360	1,016	
	Total, Unreserved Forests ...	...	...	1,421,488	8,015	...	...	...	...	1,421,488	8,015	
	GRAND TOTAL ...	...	...	1,708,978	8,189	...	...	...	...	1,708,978	8,18	

FORM NO. 55 [PRESCRIBED].—*Statement showing the Outturn of Minor Forest Produce in the Pegu Circle for the year 1891-92.*

Division.	Description of produce.	Produce removed or utilized: By Government agency. Quantity.	By Government agency. Value.	By purchasers. Quantity.	By purchasers. Value.	By free grant. Quantity.	By free grant. Value.	By right-holders. Quantity.	By right-holders. Value.	Total. Quantity.	Total. Value.	Remarks.
			Rs.		Rs.		Rs.		Rs.		Rs.	
	I—RESERVED FORESTS.											
Thayetmyo	Bamboos	...	...	68,650	172	...	...	...	...	68,650	172	
Prome				38,800	97	...	...	...	...	38,800	97	
Tharrawaddy				1,329,800	3,324	...	...	23,950	59	1,353,750	3,383	
Rangoon				1,003,550	2,556	...	...	2,425	6	1,005,975	2,562	
Toungoo				39,750	99	...	...	...	...	39,750	99	
Shwegyin				8,100	20	...	...	...	...	8,100	20	
	Total ...	...	...	2,488,650	6,268	...	...	26,375	65	2,515,025	6,333	
Tharrawaddy	Grazing ... ... Head of cattle	...	...	314	129	...	...	375	140	689	269	
Rangoon				860	270	...	...	...	...	860	270	
	Total ...	...	...	1,174	399	...	...	375	140	1,549	539	
Prome	Cutch ... ... Viss	...	...	1,305	587	...	...	...	...	1,305	587	
Tharrawaddy				316,200	33,876	...	...	...	...	316,200	33,876	
	Total ...	...	...	317,505	34,463	...	...	...	...	317,505	34,463	
Prome	Shaw fibre ... ... Viss	...	...	27,150	272	...	...	...	...	27,150	272	
Tharrawaddy				16,375	194	..	..	...	...	16,375	194	
Rangoon				8,500	170	...	...	...	...	8,500	170	
Toungoo				1,450	14	...	...	...	...	1,450	14	
Shwegyin				1,700	17	...	...	...	.	1,700	17	
	Total ...	...	..	55,175	667	...	...	...	...	55,175	667	
Prome	Cigar wrappers ... ... Viss	...	...	150	11	...	...	...	...	150	11	
Tharrawaddy				1,770	177	..	...	...	.	1,770	177	
	Total ...	...	...	1,920	188	...	...	...	...	1,920	188	
Prome	Wood-oil ... ... Viss	...	...	2,400	48	...	...	...	.	2,400	48	
Tharrawaddy				2,875	115	...	...	...	...	2,875	115	
Toungoo				500	20	...	...	...	..	500	20	
	Total ...	...	...	5,775	183	...	...		...	5,775	183	
Tharrawaddy	Thatch ... ... Bundles	...	...	50	1	...	.	...	..	50	1	
Rangoon				2,600	52	..	..	...	..	2,600	52	
Toungoo				...	...	..	...	370	7	370	7	
	Total ...	...	...	2,650	53	...	..	370	7	3,020	60	
	Carried over ...	...	...	...	42,221	...	...	...	212	...	42,433	

FORM NO. 55 [PRESCRIBED].—*Statement showing the Outturn of Minor Forest Produce in the Pegu Circle for the year 1891-92*—concluded.

Division.	Description of produce.	Produce removed or utilized: By Government agency. Quantity.	By Government agency. Value.	By purchasers. Quantity.	By purchasers. Value.	By free grants. Quantity.	By free grants. Value.	By right-holders. Quantity.	By right-holders. Value.	Total. Quantity.	Total. Value.	Remarks.
			Rs.		Rs.		Rs.		Rs.		Rs.	
	Total brought forward ..	.	...	...	42,221	...	...	...	212	...	42,433	
	RESERVED FORESTS—concluded.											
Tharrawaddy	Canes	...	...	400	1	...	...	...	...	400	1	
Rangoon				10,400	46	...	...	...	...	10,400	46	
Toungoo				230	23	..	...	...	...	230	23	
	Total ...	...	..	11,030	70	...	...	...	...	11,030	70	
Tharrawaddy	Honey ... ... Viss	...	..	750	15	...	...	...	...	750	15	
Toungoo				800	80	...	...	...	...	800	80	
	Total ...		...	1,550	95	...	...	..	.	1,550	95	
Thayetmyo	Fishing Licenses	.	...	2	20	...	...		...	2	20	
Tharrawaddy				2	20	...	..	...	.	2	20	
	Total ...	...		4	40	...	...	...	...	4	40	
Thayetmyo	Betel-leaves ... ... Viss	...	..	900	9	...	...	..	...	900	9	
Tharrawaddy	Fruit... ... Baskets	..	...	176	44	...	...	...	...	176	44	
Rangoon				20	10	...	...	...	..	20	10	
	Total ..	...	.	196	54	...	...	...	...	196	54	
Rangoon	Thin .. .. Carts	...	...	14	56	.	...	..	...	14	56	
Rangoon	Laterite ... Cubic feet			28,000	28	...	...	...	.	28,000	28	
	Total reserves ..	...	...	...	42,573	...	...	...	212	..	42,785	
	II.—PROTECTED FORESTS.											
	Nil.											
	III.—UNRESERVED FORESTS.											
Thayetmyo	Bamboo	...	...	392,200	980	..	..	.	...	392,200	980	
Prome				47,500	119	...	...	...	...	47,500	119	
Tharrawaddy				14,900	37	...	...	...	...	14,900	37	
Rangoon				88,500	332	...	...	...	...	88,500	332	
Toungoo				21,450	54	...	...	...	...	21,450	54	
Shwegyin				141,175	475	...	...	...	...	141,175	475	
Western				2,293,425	5,874	..	...	...	...	2,293,425	5,874	
Agency				5,000	19	...	...	..	...	5,000	19	
	Total ...	...	...	3,004,150	7,890	...	...	...	...	3,004,150	7,890	

Thayetmyo	Cutch	Viss	...	...	251,500	2,515	...	...	...	...	251,500	2,515
Tharrawaddy			...	...	8,400	480	...	...	...	...	8,400	480
Toungoo			...	...	5,000	200	...	...	...	...	5,000	200
		Total	...	...	264,900	3,195	...	...	...	...	264,900	3,195
Thayetmyo	Resin	Viss	...	...	1,900	38	...	...	...	...	1,900	38
Toungoo			...	...	90	6	...	...	...	...	90	6
		Total	...	...	1,990	44	...	.	...	...	1,990	44
Prome ...	Wood-oil	Viss	...	...	16,200	108	...	...	...	...	16,200	108
Tharrawaddy			...	...	4,875	78	...	...	...	...	4,875	78
Rangoon			...	...	3,000	48	...	...	...	...	3,000	48
Toungoo			...	...	42,750	684	...	...	...	...	42,750	684
Shwegyin			...	...	14,000	224	...	...	...	...	14,000	224
		Total	...	...	80,825	1,142	...	...	...	...	80,825	1,142
Toungoo	Canes		...	...	875	177	...	...	...	...	875	177
Shwegyin			...	...	1,080	270	...	...	...	...	1,080	270
Western			...	...	96,853	1,077	...	...	...	...	96,853	1,077
		Total	...	...	98,808	1,524	...	...	...	..	98,808	1,524
Toungoo	Shaw fibre	Viss	...	...	9,000	150	...	...	...	...	9,000	150
Shwegyin			...	...	1,800	30	...	...	...	...	1,800	30
Western			...	...	900	15	...	...	...	...	900	15
		Total	...	...	11,700	195	...	...	...	...	11,700	195
Thayetmyo	Bark extracts	Viss	...	...	44,000	1,760	...	...	...	...	44,000	1,760
Prome ...	Fruit ...	Basket	...	...	32	8	.	...	...	...	32	8
	Total unreserved forests		..	...	...	15,758	...	..	...	...	...	15,758
	GRAND TOTAL		...	...	...	58,331	...	...	...	212	...	58,543
	Summary.											
	Bamboos		...	...	5,492,800	14,158	...	...	...	...	...	..
	Grazing	Head of cattle	...	...	1,174	399	..	...	...	...	...	...
	Cutch	Viss	...	...	582,405	37,658	...	...	...	.	...	...
	Shaw fibre	"	...	...	66,575	862	...	...	...	...	...	...
	Cigar wrappers	"	...	...	1,920	188	...	...	...	...	...	...
	Wood-oil	"	...	...	86,600	1,325	...	...	...	...	...	...
	Thatch	Bundles	...	...	2,650	53	...	...	...	...	...	...
	Canes	...	...	...	109,838	1,594	...	...	...	...	...	...
	Honey	Viss	...	...	1,550	95	...	...	...	...	...	...
	Fishing	Licenses	...	...	4	40	...	...	...	...	...	...
	Betel-leaves	Viss	...	...	900	9	...	...	...	...	...	...
	Thin	Carts	...	...	14	56	...	...	...	...	...	...
	Laterite	C. feet	...	...	28,000	28	...	...	...	...	...	...
	Fruit	Baskets	...	...	228	62	...	...	...	...	...	...
	Bark extracts	Viss	...	...	44,000	1,760	...	...	...	...	...	...
	Resin	"	..	...	1,990	44	...	...	...	...	...	...
			...	...	..	43,774	...	...	...	...	...	...
	Outstanding of 1890-91 recovered		...	...	...	330	...	...	...	...	...	...
	Total Revenue under II-C		...	...	...	44,104	...	...	...	...	...	...

ANNUAL FORM No. 56 [PRESCRIBED].—*Account of Timber and other Produce cut or collected by Government Agency and brought to Sale Depôts or sold locally in the Tenasserim and Pegu Circles for the year 1891-92.*

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE				
TIMBER.				
Opening Balance.				
Attaran division.				
Padauk logs ...	70	2,012		
Ingyin logs ...	3	48		
Pyinma logs ...	121	4,425		
Thitka logs ...	1	55		
Thitya logs	7	268		
Thingan logs ...	76	3,283		
Pyinma sleepers ...	108	375		
Pyinkado sleepers	1,011	1,549		
Thitya sleepers ...	8	27		
Teak scantlings, tons	3	178		
Pyinma scantlings, tons	18	931		
Pyinkado scantlings, tons	129	6,442		
Padauk planks, tons	1	52		
			1,556	19,645
East Salween division.				
Teak logs, pieces, and crooks.	175	1,942		
Padauk logs	48	960		
Ingyin logs ...	60	1,954		
Pyinma logs ...	66	4,629		
Pyinkado posts ...	7	81		
Thingan hulls ...	3	266		
			359	9,832
West Salween division.				
Teak logs, pieces, and crooks.	58	1,143		
Pyinma logs ..	51	2,850		
Pyinkado sleepers, large	140	485		
Pyinkado sleepers, small	238	275		
			487	4,753
Kado division.				
Drift teak logs ..	3,033	113,077		
Drift woods, other kinds, logs.	10	500		
Scantlings, tons ..	1	50		
Pyinma logs ...	56	2,136		
Foreign teak logs ..	130,607	5,796,656		
Foreign woods, other kinds.	84	3,315		
			133,791	5,915,734
South Tenasserim division.				
Thitka logs ...	7	450		
Anan logs ...	6	177		
Kamaung logs ...	36	1,790		
Thingan logs ...	21	903		
Padauk logs ...	38	3,180		
Pyinkado logs ..	385	17,600		
Other unreserved woods	1	55		
Confiscated logs .	12	783		
Drift logs, other kinds ..	26	1,318		
Waif logs, other kinds...	1	13		
Pyinkado sleepers ...	513	769		
			1,046	27,239
Total opening balance ...	...	...	137,239	5,977,203
Received from the Forests in Depôts.				
Teak logs, pieces, and crooks...	18,045	368,387		
Padauk logs	191	8,599		
Ingyin logs	15	364		
Pyinma logs	5,877	315,715		
Thitka logs	235	9,560		
Kanyin logs	564	50,903		
Kamaung logs ...	6	308		
Pyinkado logs ...	34	1,490		
Unreserved woods, logs	52	2,864		
Drift teak logs	8,256	202,200		
Drift woods, other than teak logs.	33	1,240		
Confiscated other than teak logs.	83	4,744		
Waif other than teak logs ...	7	964		
			33,398	967,338
Carried over ...	...	...	...	...
Carried over ...	...	...	170,637	6,944,541

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE.				
TIMBER.				
Received by Purchasers from Depôts.				
Teak logs, pieces, and crooks	14,362	333,170		
Padauk logs .	175	8,383		
Ingyin logs	29	1,085		
Pyinma logs	5,932	319,608		
Thitka logs	205	7,604		
Kanyin logs	548	50,014		
Pyinkado logs	20	1,077		
Unreserved woods, logs ...	1	70		
Drift teak logs	3,197	73,900		
Drift woods other than teak logs.	11	582		
Waif woods other than teak logs	8	977		
Confiscated other than teak logs.	83	4,863		
Pyinkado sleepers ...	1,360	2,040		
Pyinma sleepers	108	375		
Pyinkado scantlings, tons ...	83	4,143		
Pyinma scantlings, tons ...	8	404		
			26,130	808,295
Converted in Depôt.				
Pyinma logs	56	3,317		
			56	3,317
Used, lost, drifted, &c.				
Teak logs	36	450		
Teak scantlings, tons ...	2	116		
Pyinkado sleepers ...	378	760		
Thitya sleepers	8	27		
			424	1,353
Delivered to Claimants.				
Drift teak	4,149	148,600		
Drift woods other than teak ...	17	650		
Drift teak scantlings, tons ...	1	50		
			4,167	149,300
Logs cleared from Depôts on payment of duty.				
Foreign teak ...	114,142	3,822,100		
Foreign woods other than teak.	3	650		
			114,145	3,822,750
Total, disposals ...	...	...	144,922	4,785,015
Closing Balance.				
Teak logs, pieces, and crooks	355	4,029		
Padauk logs ...	139	3,519		
Ingyin logs	49	1,281		
Pyinma logs	132	4,035		
Thitka logs	2	81		
Thingan logs	76	3,283		
Thitya logs	7	268		
Kanyin logs	16	889		
Thingan hulls	3	266		
Unreserved woods, logs ...	51	2,794		
Pyinkado sleepers ...	101	184		
Pyinma sleepers ...	202	808		
Teak scantlings	1	62		
Pyinma scantlings ...	34	1,724		
Pyinkado scantlings ...	46	2,293		
Padauk scantlings ...	1	52		
Pyinkado posts	7	81		
			1,222	25,655
West Salween division teak logs pieces and crooks.	3,561	34,273		
			3,561	34,273
Kado division.				
Pyinma logs ...	51	2,795		
Drift teak	3,907	92,327		
Drift woods other than teak.	18	650		
Foreign teak logs .	100,743	5,682,806		
Foreign woods other than teak logs.	92	3,615		
			104,811	5,782,193
Carried over ...	...	...	...	...
Carried over ...	...	...	254,516	10,627,136

ANNUAL FORM NO 56 [PRESCRIBED]—*Account of Timber and other Produce cut or collected by Government Agency, &c.*—continued

Particulars	Number or quantity	Cubic feet.	Total of each head: Number or quantity	Total of each head: Cubic feet.
TENASSERIM CIRCLE—concluded.				
Brought forward ...		...	170,637	6,944,541
Brought forward ...	...	...	...	...
Received by conversion in Depôts.				
Pyinma scantlings, tons .	24	1,197		
Pyinma sleepers, number ..	613	2,452		
Pyinkado scantlings, tons ...	59	2,959		
Pyinkado sleepers, tons ...				
			696	6,608
Foreign timber entered at Kado Revenue Station.				
Teak logs	84,278	3,708,250		
Woods other than teak ...	11	950		
			84,289	3,709,200
GRAND TOTAL ...	...	...	255,622	10,660,349

Particulars.	Number or quantity	Cubic feet.	Total of each head: Number or quantity.	Total of each head: Cubic feet.
TENASSERIM CIRCLE—concluded				
Brought forward .	..	...	254,516	10,627,136
Brought forward ...	...	...	...	...
Closing Balance—concluded.				
Thitka logs	36	2,380		
Anan logs	6	177		
Kamaung logs	42	2,098		
Thingan logs	21	903		
Padauk logs	33	3,049		
Pyinkado logs	399	18,013		
Unreserved logs	1	56		
Confiscated other than teak	12	664		
Drift other than teak .	23	1,176		
Waif other than teak		...		
Pyinkado sleepers ...	63	94		
Pyinma sleepers ...	411	1,644		
Pyinkado scantlings tons ...	59	2,959		
			1,106	33,213
GRAND TOTAL ..	.	...	255,622	10,660,349

Particulars	Number or quantity	Cubic feet.	Total of each head: Number or quantity	Total of each head: Cubic feet.
PEGU CIRCLE.				
OPENING BALANCE.				
Teak logs.				
Thayetmyo	191	2,716		
Prome	74	2,960		
Shwegyin ...	80	3,300		
Agency ..	22,649	1,085,963		
			22,994	1,094,939
Teak sleepers.				
Agency	42	63		
			42	63
Paddy-field teak logs.				
Prome	303	5,757		
Tharrawaddy	2,425	46,075		
			2,728	51,832
Logs other than teak.				
Shwegyin ...	88	3,400		
Agency ...	55	2,352		
			143	5,752
Drift teak logs.				
Thayetmyo .	236	11,800		
Prome	98	2,940		
Toungoo	155	4,650		
Shwegyin	193	9,520		
Western	135	6,166		
Agency	114	6,247		
In transit	126	9,200		
			1,057	50,523
Drift logs other than teak.				
Shwegyin	4	160		
			4	160
Total opening balance		.	26,968	1,203,269
Carried over ...	...	...	26,968	1,203,269

Particulars	Number or quantity	Cubic feet.	Total of each head: Number or quantity.	Total of each head: Cubic feet.
PEGU CIRCLE.				
Transferred to Rangoon Depôt				
Teak logs	35,378	1,727,342		
Logs other than teak ..	110	5,584		
Drift teak logs	960	30,820		
Drift logs other than teak ...	31	1,521		
Total transfers ...	..	..	36,479	1,765,267
Returned to Contractors.				
Teak logs	1,435	25,976	1,435	25,976
Used, lost, stolen, &c.				
Teak logs	80	3,300		
Logs other than teak ..	124	5,314		
Drift teak logs	61	1,427		
			265	10,041
Drift logs returned to Claimants.				
Teak logs	2,158	97,868	2,158	97,868
Sold locally				
Teak logs .	1,483	35,797		
Teak logs from paddy-fields ...	2,829	54,548		
Logs other than teak ..	266	13,163		
Drift teak logs ..	665	30,226		
Drift logs other than teak ...	199	9,840		
			5,442	143,574
From Rangoon Depôt, drift logs returned to Claimants				
Teak logs ...	974	38,817		
Logs other than teak ..	1	38		
			975	38,855
Disposals carried over ...			10,275	316,314
Total transfers carried over ...	...	...	36,479	1,765,267

ANNUAL FORM NO. 56 [PRESCRIBED].—*Account of Timber and other Produce cut or collected by Government Agency, &c.*—concluded.

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
PEGU CIRCLE—concluded.				
Brought forward ...	...	...	26,968	1,203,269
Received from Forests.				
Teak logs	40,348	1,848,209		
Teak logs from paddy-fields ..	2,656	58,158		
Teak poles	7,866	7,866		
Logs other than teak ...	528	26,461		
			51,408	1,940,694
Drift collected.				
Teak logs ...	3,736	148,106		
Logs other than teak ...	237	11,511		
			3,973	159,617
Total receipts ...	...	...	55,381	2,100,311
Received in Rangoon Depôt.				
Teak logs	35,378	1,727,342		
Logs other than teak ...	110	5,584		
Drift teak logs ..	960	30,820		
Drift logs other than teak ...	31	1,521		
Total transfers ...	...	...	36,479	1,765,267
GRAND TOTAL ...	...	...	118,828	5,068,847

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
PEGU CIRCLE—concluded.				
Total transfers brought forward.	...	...	36,479	1,765,269
Disposals brought forward	...	...	10,375	316,314
from Rangoon Depôt sold.				
Teak logs	30,946	1,481,432		
Teak sleepers	42	63		
Logs other than teak ...	128	6,473		
Drift teak logs	154	5,199		
Drift logs other than teak ...	13	592		
			31,283	1,493,759
Total disposals ...	...	...	41,558	1,810,073
CLOSING BALANCE.				
Teak logs.				
Thayetmyo	1,453	26,020		
Prome	42	1,680		
Tharrawaddy	80	4,000		
Rangoon	22	220		
Shwegyin	730	32,850		
Agency	27,081	1,331,873		
			29,408	1,396,643
Teak logs from paddy-fields.				
Prome	384	7,680		
Tharrawaddy	2,171	47,762		
			2,555	55,442
Teak poles.				
Rangoon	7,866	7,866		
			7,866	7,866
Logs other than teak.				
Rangoon	116	5,800		
Agency	37	1,463		
			153	7,263
Drift teak logs.				
Thayetmyo	49	3,491		
Prome	89	2,670		
Toungoo	153	6,120		
Shwegyin	223	6,910		
Western	195	3,650		
Agency	72	2,251		
			781	25,092
Drift logs other than teak.				
Prome	2	60		
Toungoo	3	120		
Shwegyin	6	130		
Agency	17	891		
			28	1,201
Total closing balance ...	...	...	40,791	1,493,507
GRAND TOTAL ...	...	...	118,828	5,068,847

ANNUAL FORM NO. 56A [PRESCRIBED].—*Account of Timber and other Produce cut or collected by Government Agency and brought to Sale Depôts, or sold locally for the year 1891-92.*

Particulars.	Tenasserim circle.		Pegu circle.		Total of each head.	
	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Opening balance	137,339	5,977,203	26,968	1,203,269	164,207	7,180,472
Received from Forests in Depôts.						
Teak logs, pieces, and crooks	18,045	368,387	35,378	1,727,342	53,423	2,095,729
Padauk logs	191	8,590	..	...	191	8,599
Ingyin logs	15	364	...	..	15	364
Pyinma logs	5,877	315,715	...	..	5,877	315,715
Thitka logs	235	9,560	...	...	235	9,560
Kanyin logs .. .	564	50,903	...	...	564	50,903
Kamaung logs	6	308	...	...	6	308
Pyinkado logs	34	1,490	...	...	34	1,490
Unreserved woods, logs	52	2,864	110	5,584	162	8,448
Drift teak logs	8,256	202,200	960	30,820	9,216	233,020
Drift woods other than teak logs	33	1,240	31	1,521	64	2,761
Confiscated logs	83	4,744	...	...	83	4,744
Waif	7	964	...	...	7	964
Total ..	33,398	967,338	36,479	1,765,267	69,877	2,732,605
Received from Forests by Extraction.						
Teak logs	...	...	40,358	1,848,209	40,358	1,848,209
Paddy-field teak logs	...	..	2,656	58,158	2,656	58,158
Teak poles	...	...	7,866	7,866	7,866	7,866
Logs other than teak	...	...	528	26,461	528	26,461
Total ..	..	...	51,408	1,948,694	51,408	1,940,694
Carried over ...	170,637	6,944,541	114,855	4,909,230	285,492	10,943,771

Particulars.	Tenasserim circle.		Pegu circle.		Total of each head.	
	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Removed by Purchasers from Depôts.						
Teak logs, pieces, and crooks	14,362	323,170	30,946	1,481,432	45,308	1,814,602
Padauk logs	175	8,383	..	...	175	8,383
Ingyin logs	29	1,085		..	29	1,085
Pyinma logs	5,932	319,608	.	..	5,932	319,608
Thitka logs	205	7,604	...	...	205	7,604
Kanyin logs	548	50,014	...	..	548	50,014
Pyinkado logs	20	1,077	.	.	20	1,077
Unreserved woods, logs	1	70	128	6,473	129	6,543
Drift teak logs	3,197	73,900	154	5,199	3,351	79,099
Drift woods other than teak logs	11	582	13	592	24	1,174
Waif woods other than teak logs.. ...	8	977	...	...	8	977
Confiscated woods other than teak logs ...	83	4,863	...	...	83	4,863
Teak sleepers	...	..	42	63	42	63
Pyinkado sleepers	1,360	2,040	...	...	1,360	2,040
Pyinma sleepers	108	375	...	...	108	375
Pyinkado scantlings ... ... Tons	83	4,143	...	.	83	4,143
Pyinma scantlings ... .. "	8	404	...	...	8	404
Total ...	26,130	808,295	31,283	1,493,759	57,413	2,302,054
Disposed of Locally.						
Teak logs	...	...	1,483	35,797	1,483	35,797
Logs other than teak	...	...	266	13,163	266	13,163
Paddy-field teak logs	...	...	2,829	54,548	2,829	54,548
Drift teak logs	...	...	665	30 226	665	30,226
Drift logs other than teak	...	..	199	9,840	199	9,840
Total ...	...	..	5,442	1,43,574	5,442	143,574
Used, Lost, Drifted, &c.						
Teak logs	36	450	80	3,300	116	3,750
Teak scantlings ... ... Tons	2	116	.	...	2	116
Logs other than teak	...	...	124	5,314	124	5,314
Drift teak logs	...	...	61	1,427	61	1,427
Pyinkado sleepers	378	760	...	..	378	760
Thitya sleepers	8	27	.	...	8	27
Total ...	424	1,353	265	10,041	689	11,394
Carried over ...	26,554	809,648	36,990	1,647,374	63,544	2,457,022

ANNUAL FORM NO. 56A [PRESCRIBED].—*Account of Timber and other Produce cut or collected by Government Agency and brought to Sale Depôts, or sold locally for the year 1891-92*—concluded.

Particulars.	Tenasserim circle.		Pegu circle.		Total of each head.	
	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Brought forward ...	170,637	6,944,541	114,855	4,909,230	285,492	10,943,771
Received by Conversion in Depôts.						
Pyinma scantlings ... ... Tons	24	1,197	...	...	24	1,197
Pyinma sleepers ... ... Nos.	613	2,452	...	...	613	2,432
Pyinkado scantlings ... ... Tons	59	2,959	...	...	59	2,959
Pyinkado sleepers ... ... Nos.	...	...	...	...	...	...
Padauk log, ends	...	...	...	...	...	...
Total ...	696	6,608	...	...	696	6,588
Foreign Timber entered at Kado Revenue Station.						
Teak logs	84,278	3,708,250	...	...	84,278	3,708,250
Woods other than teak	11	950	...	...	11	950
Total ...	84,289	3,709,200	...	...	84,289	3,709,200
Drift Logs collected in Division.						
Teak logs	...	...	3,736	148,106	3,736	148,106
Logs other than teak	...	...	237	11,511	237	11,511
Total ...	...	...	3,973	159,617	3,973	159,617
Grand Total ...	255,622	10,660,349	118,828	5,068,847	374,450	15,729,196

Particulars.	Tenasserim circle.		Pegu circle.		Total of each head.	
	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Brought forward ...	26,554	809,648	36,990	1,647,374	63,544	2,457,022
Delivered to Claimants.						
Drift teak logs	4,149	148,600	3,132	136,685	7,281	285,285
Drift woods other than teak	17	650	1	38	18	688
Drift teak scantlings ... ... Tons	1	50	...	...	1	50
Total ...	4,167	149,300	3,133	136,725	7,300	286,023
Transferred to Depôts.						
Teak logs	...	...	35,378	1,727,342	35,378	1,727,342
Drift logs other than teak	...	...	31	1,521	31	1,521
Logs other than teak	...	...	110	5,584	110	5,584
Drift teak logs	...	...	960	30,820	960	30,820
Total ...	...	...	36,479	1,765,267	36,479	1,765,267
Cleared on Payment of Duty.						
Foreign teak logs	114,142	3,822,100	...	...	114,142	3,822,100
Foreign other kinds	3	650	...	...	3	650
Total ...	114,145	3,822,750	...	...	114,145	3,822,750
Converted in Depôts.						
Pyinma logs	56	3,317	...	...	56	3,317
Total ...	56	3,317	...	...	56	3,317
Returned to Contractors.						
Teak logs	...	...	1,435	25,976	1,435	25,976
Closing Balance.						
Teak logs	3,916	38,302	29,408	1,396,643	33,324	1,434,945
Drift teak logs	3,907	92,327	781	25,092	4,688	117,419
Teak poles	...	...	7,866	7,866	7,866	7,866
Sleepers other than teak	777	2,730	...	...	777	2,730
Logs other than teak	1,061	45,621	153	7,263	1,214	52,884
Teak scantlings	1	62	...	...	1	62
Scantlings other than teak	140	7,034	...	...	140	7,034
Posts other than teak	7	81	...	...	7	81
Drift logs other than teak	41	1,826	28	1,201	69	3,027
Paddy-field teak logs	...	...	2,555	55,442	2,555	55,442
Foreign teak	100,743	5,682,806	...	...	100,743	5,682,806
Foreign timber other than teak	92	3,615	...	...	92	3,615
Confiscated other than teak	12	664	...	...	12	664
Thingan hulls	3	266	...	...	3	266
Total ...	110,700	5,875,334	40,791	1,493,507	151,491	7,368,841
Grand Total ...	255,622	10,660,349	118,828	5,068,847	374,450	15,729,196

FORM NO. 57 [PRESCRIBED].—*Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1891-92.*

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.	
TENASSERIM CIRCLE.			Rs.			Rs.	Rs.	Rs.	
Teak logs	233	3,085	1,572	3,916	38,302	8,124	6,552	...	
Drift logs	3,082	115,691	36,846	3,950	94,817	41,626	4,780	...	
Logs (woods, other kinds)	1,063	47,323	13,699	1,081	45,968	12,579	...	1,120	
Sleepers	2,018	3,480	1,820	777	2,730	3,244	1,487	...	
Teak scantlings...	3	178	202	1	62	37	...	165	
Scantlings other than teak	149	7,475	4,312	140	7,034	6,528	2,216	...	
Foreign teak	130,607	5,796,656	26,12,140	100,743	5,682,806	20,14,860	...	5,97,280	
Foreign wood (other kinds) ...	84	3,315	840	92	3,615	920	80	...	
Total ...	137,239	5,977,203	26,71,431	110,700	5,875,334	20,87,918	...	5,83,513	
PEGU CIRCLE.									
Teak logs	22,904	1,094,939	7,12,814	29,408	1,396,643	9,11,648	1,98,834	...	
Teak paddy-field logs	2,728	51,832	13,640	2,555	55,442	12,775	...	865	
Teak sleepers	42	63	21	...	...	...	...	21	
Teak poles	...	...	...	7,866	7,866	624	624	...	
Logs other than teak	143	5,752	1,144	153	7,203	1,224	80	...	
Teak drift logs	1,057	50,573	23,254	781	25,092	17,182	...	6,072	
Drift logs other than teak	4	160	32	28	1,201	224	192	...	
Total ...	26,968	1,203,269	7,50,905	40,791	1,493,507	9,43,677	1,92,772	..	

FORM NO. 57A.—*Abstract showing the Value of Live and Dead Stock for the year 1891-92.*

Description of live and dead stock.	At commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.	
TENASSERIM CIRCLE.			Rs.				Rs.		
Live-stock	11	...	11,470	11	...	13,850	2,380	...	
Buildings	30	...	17,498	30	...	16,649	...	849	
Dead-stock	...	...	11,584	...	...	10,716	...	868	
Total Tenasserim Circle ...	41	...	40,552	41	...	41,215	663	...	
PEGU CIRCLE.									
Live-stock	36	...	47,500	38	...	49,856	2,356	...	
Buildings	49	...	54,566	52	...	57,962	3,396	...	
Dead-stock	...	...	29,685	...	...	32,584	2,899	..	
Total Pegu Circle ...	...	...	1,31,751	...	...	1,40,402	8,651	...	
GRAND TOTAL LOWER BURMA ...	...	...	1,72,303	...	...	1,81,617	9,314	..	

FORM No. 58 [PRESCRIBED].—*Summary of Revenue of the different Divisions for the year 1891-92.*

Budget head—receipts.	Agency division.	Kado division.	South Tenasserim division.	Total, Tenasserim circle	Agency division.	Rangoon division.	Tharrawaddy division.	Prome division.	Thayetmyo division.	Western division.	Toungoo division.	Shwegyin division.	Total Pegu circle	Grand total.
	Rs.	Rs.	Rs	Rs	Rs	Rs.	Rs.	Rs	Rs	Rs.	Rs.	Rs.	Rs.	Rs.
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—														
(a) Timber	2,58,130	16,121	2,874	2,77,125	15,86,177	2,270	10,730	10,773	6,229	2,942	...		16,19,121	18,96,246
(b) Firewood and charcoal	..	...	.		...	..	...	...	..	..	...	...	...	...
(c) Bamboos	...		..	...	...	...	..	...	...	...	...	...	...	...
(d) Sandal-wood	...	.	...	-	...	...	...	...		..		...	...	...
(e) Grass and other minor produce	...	...		...	...	...	...	...	...	...	...	...	...	...
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—														
(a) Timber	46,986	11,842	12,668	71,496	2,996	23,055	39,420	18,216	31,558	60,718	2,25,176	54,370	4,55,509	5,27,005
(b) Firewood and charcoal	205	18	29	253	17,301	2,532	765	232	246	183	341	620	22,220	22,473
(c) Bamboos	102	789	168	1,059	19	2,888	3,352	216	1,152	5,873	153	495	14,158	15,217
(d) Grazing and fodder grass	..	...	10	10		270	129		...	...		.	399	409
(e) Other minor produce	246	20	6,854	7,120	...	410	35,001	1,034	4,672	1,092	1,354	541	44,104	51,224
III.—CONFISCATED DRIFT AND WAIF WOOD	253	58,610	638	59,501	8,979	551	...	2,187	1,851	10,266	3,030	2,956	29,820	89,321
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—														
(a) Duty on foreign timber and other forests produce	...	2,14,992	..	2,14,992	...	..	...	..	..	..	...	...	..	2,14,992
(b) Revenue from shared and private forests	...	...	...	..	...		...	..	...	...	...	.	...	...
V.—MISCELLANEOUS—														
(a) Fines and forfeitures	5,895	2,387	.	8,282	...	1,252	...	..	...	...	.	...	1,252	9,534
(b) Refunds	128	136	..	264	413	449	125	110	...	277	252	91	1,717	1,981
(c) Other sources	697	9,026	775	10,498	2,500	1,435	4,287	4,245	3,162	1,198	1,109	1,278	19,214	29,712
Total ...	3,12,643	3,13,941	24,016	6,50,600	16,18,385	35,112	93,819	37,013	48,870	82,549	2,31,145	60,351	22,07,514	28,58,114

ANNUAL FORM NO. 58 [PRESCRIBED].—*Summary of Expenditure of the different Divisions for the yeer 1891-92.*

Budget head.	Agency division.	Kado division.	South Tenasserim division.	Total Tenasserim circle.	Agency division.	Rangoon division.	Tharrawaddy division.	Prome division.	Thayetmyo division.	Western division.	Toungoo division.	Shwegyin division.	Total Pegu circle.	Grand total.
A.—CONSERVANCY AND WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—														
(a) Timber	1,44,933	9,139	3,890	1,58,012	23,562	52,611	2,19,964	38,779	9,502	1,598	1,79,266	12,411	5,37,693	6,95,705
(b) Firewood and charcoal	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(c) Bamboos	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(d) Sandal-wood	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(e) Grass and other minor produce	...	...	...	...	...	...	...	...	...	...	...	...	...	...
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—	1,580	1,104	73	2,757	1,116	1,572	1,283	1,000	1,288	2,740	1,154	291	10,444	13,201
III.—CONFISCATED DRIFT AND WAIF WOOD—	...	28,104	19	28,123	1,726	612	...	273	297	3,749	1,344	2,180	10,181	38,304
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—														
(a) Duty on foreign timber and other forest produce	...	6,540	...	6,540	...	...	...	...	...	...	...	...	...	6,540
(b) Revenue from shared and private forests	...	...	...	...	...	...	...	...	...	...	...	...	...	...
V—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT.														
VI.—LIVE STOCK, STORES, TOOLS AND PLANT—														
(a) Purchase of cattle	...	...	...	...	1,100	...	...	...	...	...	1,250	...	2,350	2,350
(b) Feed and keep of cattle	3,585	324	...	3,909	10,237	585	968	3,530	605	939	579	712	18,155	22,064
(c) Purchase of stores, tools and plant	1,487	183	125	1,795	3,326	195	149	267	65	177	65	286	4,530	6,325
VII.—COMMUNICATIONS AND BUILDINGS—														
(a) Roads and bridges	7	..	...	7	205	158	184	...	...	...	...	...	547	554
(b) Buildings	315	1,069	358	1,742	875	723	908	662	50	41	997	646	4,902	6,644
(c) Other works	5	149	...	154	...	...	22	16	4	...	...	...	42	196
VIII.—DEMARCATION, IMPROVEMENT, AND EXTENSION OF FORESTS—														
(a) Demarcation	704	...	5	709	1,906	600	528	197	56	...	1,111	45	4,443	5,152
(b) Compensation for land and rights	...	...	...	...	...	...	...	...	...	...	1,379	...	1,379	1,379
(c) Surveys and working plans	21,884	...	..	21,884	1,338	423	535	11,517	...	...	289	...	14,102	35,986
(d) Sowing and planting	9,848	...	854	10,702	...	7,264	35,104	8,172	3,780	...	2,160	20	56,500	67,202
(e) Protection from fire	6,554	...	...	6,554	...	2,327	6,322	4,891	331	...	3,946	15	17,832	24,386
(f) Other works	...	...	...	...	...	98	6,206	...	...	...	72	...	6,376	6,376
IX.—MISCELLANEOUS—														
(a) Refunds	24	30	...	54	11	...	...	...	...	...	...	90	101	155
(b) Law charges	17	158	...	175	...	...	13	...	13	...	13	...	39	214
(c) Other charges	151	304	31	486	200	15	849	1,005	36	23	81	75	2,285	2,771
Total A.—Conservancy and Works	1,91,094	47,154	5,355	2,43,603	45,602	67,183	2,73,035	70,310	16,027	9,267	1,93,706	16,771	6,91,901	9,35,504
B.—ESTABLISHMENT.														
I.—SALARIES—														
(a) Conservators	13,211	...	...	13,211	13,211	...	...	...	...	...	...	...	13,211	26,422
(b) Superior officers	25,950	7,934	3,300	37,184	13,982	10,576	14,997	7,633	10,200	10,035	11,392	6,600	86,305	1,23,489
(c) Subordinate forest and depôt establishments	7,591	7,605	2,688	17,884	8,826	7,372	5,545	5,762	2,384	3,355	6,526	3,550	43,320	61,204
(d) Office establishments	9,600	6,081	1,500	17,181	14,580	2,403	4,696	1,852	1,254	1,490	1,911	1,635	29,821	47,002
(e) Deputation and special allowances	4,672	1,200	690	6,562	4,794	1,403	2,700	1,500	1,600	1,490	2,300	1,200	16,987	23,549
II.—TRAVELLING ALLOWANCES—														
(a) Conservators	2,007	...	...	2,007	1,843	...	...	...	...	...	...	...	1,843	3,850
(b) Superior officers	3,811	2,076	682	6,569	3,149	2,076	5,405	1,858	1,315	1,930	2,064	1,636	19,453	26,022
(c) Subordinate forest and depôt establishments	1,417	594	130	2,141	985	2,140	1,224	513	480	1,422	910	1,037	8,711	10,852
(d) Office establishments	508	53	130	691	269	406	446	220	133	256	247	135	2,112	2,803
III.—CONTINGENCIES—														
(a) Stationery.	..	...	...	...	41	...	1	19	5	4	9	5	84	84
(b) Carriage of tents and records	311	145	...	456	...	29	...	...	4	...	...	35	68	524
(c) Rents, rates, and taxes	57	38	...	95	3,000	7	87	119	29	100	29	10	3,381	3,476
(d) Pay of police guards	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(e) Official postage	166	85	38	289	436	119	156	66	75	150	56	72	1,130	1,419
(f) Sundries	783	97	160	1,040	463	298	856	403	39	114	111	215	2,499	3,539
Total B.—Establishment	70,084	25,908	9,318	1,05,310	65,579	26,829	36,113	19,945	17,518	21,256	25,555	16,130	2,28,925	3,34,235
GRAND TOTAL OF EXPENDITURE	2,61,178	73,062	14,673	3,48,913	1,11,181	94,012	3,09,148	90,255	33,545	30,523	2,19,261	32,901	9,20,826	12,69,739

NOTE.—These figures differ from those in the body of the report, the total of which is less by Rs. 239-10-6 under A-I(a). In the report Rs. 47-8-0 is shown under A-I(a) instead of A-VIII(d), Rs. 130 under B-I(c) instead of B-II(b), and Rs. 20-4-0 under B-III(e) instead of B-III(c).

CALCUTTA:
The 28th June 1892.

J. BRIDGNELL, *Chief Superintendent,*
in charge Forest Account Branch, Comptroller General's Office.

ANNUAL FORM No 59 [PRESCRIBED].—*Account-current for the year 1891-92.*

TENASSERIM CIRCLE

	Rs A P	Rs A. P
To Cash Balance	.....	512 3 7
To VIII—Assessed Taxes—		
Income-tax deductions from salaries	.....	1,904 7 0
Revenue as per Annual Summary Form No 58	.....	6,50,600 3 11
To Service Funds—		
Civil Fund, Ordinary, Bengal	.....	
Civil Fund, Additional, Bengal	.....	
Military Fund, Bengal	.....	
Military Fund, Madras	.....	
Military Orphan Fund, Bengal	.....	
Uncovenanted Service Family Pension Fund, Bengal	.....	1,099 2 0
General Family Pension Fund	.....	
Hindu Family Annuity Fund	.....	
To Deposits	.....	
To Forest Cash Remittances (Local)—		
Forest cheques drawn	3,38,431 0 4	
Inter-divisional transfers	1,051 8 6	3,39,482 8 10
To Advances recoverable	.....	5,368 9 5
Suspense	.....	32 4 0
To Account-current (other Governments)—		
Remittances from Government of India	22,819 13 3	
Remittances from Government of Bengal	120 0 0	22,939 13 3
To Inter-Departmental Transfers—		
Public Works Department	.....	
Military Department, Bengal	592 12 0	
To Civil Department—		
Jail (Rs A P 56 12 0)	.....	
Mathematical Instrument Department (Rs A P 26 0 0)	.....	
Miscellaneous	354 0 0	
Marine Department	599 13 11	1,546 11 11
Total	.....	10,71,801 15 11

	Rs, A P.	Rs. A. P.
By Expenditure as per Annual Summary Form No. 58	.....	3,48,912 15 3
Deposits	.....	
By Forest cash Remittances (Local)—		
Remittances to treasuries	6,11,968 2 9	
Inter-divisional transfers	819 11 0	6,11,887 13 9
By Advances recoverable	.....	58,385 7 3
Suspense	.....	28 8 0
By Account-current (other Governments)—		
Remittances to the Government of India	..	20,439 7 5
By Inter-Departmental Transfers—		
Public Works Department, State Railways	915 14 0	
Military Department		
Madras (Rs. A. P 8,204 14 4)		
Bombay (Rs. A. P 13,561 11 6)	21,766 9 10	
By Civil Department—		
Jails (Rs A P. 8,750 1 7)		
Miscellaneous (Rs A P 14 8 0)	8,764 9 7	31,447 1 5
By Cash balance	.....	700 10 10
Total	..	10,71,801 15 11

CALCUTTA:
The 8th June 1892.

J. BRIDGNELL, *Chief Superintendent,*
in charge Forest Account Branch, Comptroller-General's Office.

Dr. ANNUAL FORM NO. 59 [PRESCRIBED].—*Account-Current for the year 1891-92.* *Cr.*

PEGU CIRCLE.		Rs. A. P.	Rs. A. P.
To Cash Balance ...		.....	380 7 10
To VIII.—Assessed Taxes—			
Income-tax deductions from salaries ...		.....	3,907 8 10
To Revenue as per Annual Summary Form No. 58 ...		.....	22,07,514 4 3
To Service Funds—			
Civil Fund, Ordinary, Bengal ...		.....	
Civil Fund, Additional, Bengal ...		.....	
Military Fund, Bengal ...		.....	
Military Fund, Madras ...		.....	
Military Orphan Fund, Bengal ...		.....	
Uncovenanted Service Family Pension Fund, Bengal ...		.....	993 9 0
General Family Pension Fund ...		.....	
Hindu Family Annuity Fund ...		.....	
To Deposits ...		.....	.....
To Forest Cash Remittance—(Local)—			
Forest cheques drawn ...		9,16,771 11 10	
Inter-divisional transfers ...		21,653 3 5	
			9,38,424 15 3
To advances recoverable...		.....	3,89,212 0 3
„ Suspense ...		.....	27 2 0
To Account-current (other Governments)—			
Remittances from Government of India ...		2,537 14 7	
Remittances from Government of Bengal ...		797 7 2	
			3,335 5 9
To Inter-Departmental Transfers—			
Public Works Department, ordinary branches ...		557 15 11	
	Rs. A. P.		
Military Department, Bengal ...	952 8 11	.....	
Military Department, Madras ...	127 3 8	1,080 12 7	
To Civil Department—			
Jail ...	495 4 0	.....	
Mathematical Instrument Department ...	447 0 0	.....	
Miscellaneous ...	1,122 4 3	2,064 8 3	3,703 4 9
Total ...		.....	35,47,498 9 11

PEGU CIRCLE.		Rs. A. P.	Rs. A. P.
By Expenditure as per Annual Summary Form No. 58 ...		.....	9,20,826 6 10
„ Deposits ...		.....	.. ..
By Forest Cash Remittances—(Local)—			
Remittances to treasuries ...		19,82,695 12 7	
Inter-divisional transfers ...		23,418 13 5	20,06,114 10 0
By Advances recoverable ...		.....	3,91,391 7 0
„ Suspense ...		.....	27 5 10
By Account-current (other Governments)—			
Remittances to the Government of India ...		93 13 0	
Remittances to the Government of Madras ...		97,084 0 7	97,177 13 7
By Inter-Departmental Transfers—			
Public Works Department, State Railways ...		.....	
Public Works Department, Burma State Railway ...		60,817 4 3	
Military Department ...		.....	
By Civil Department—			
	Rs. A. P.		
Jails ...	24,612 11 4		
Miscellaneous ...	981 4 0		
		25,593 15 4	
Telegraph ...		159 12 0	
Marine ...		44,704 6 1	1,31,275 5 8
By Cash balance ...		.....	685 9 0
Total ...		.....	35,47,498 9 11

CALCUTTA:
The 28th June 1892.

J. BRIDGNELL, *Chief Superintendent,*
in charge Forest Account Branch, Comptroller-General's Office.

ANNUAL FORM No. 59A [PRESCRIBED].—*Account-Current for the year 1891-92.*

Dr.

	Tenasserim circle.	Pegu circle.	Total.
	Rs. A. P.	Rs. A. P.	Rs. A. P.
To Cash Balance	512 3 7	380 7 10	892 11 5
To VIII.—Assessed Taxes—			
Income-tax deductions from salaries	1,904 7 0	3,907 8 10	5,811 15 10
Revenue as per Annual Summary Form No. 58 ...	6,50,600 3 11	22,07,514 4 3	28,58,114 8 2
To Service Funds—			
Civil Fund, Ordinary, Bengal	.....	.....	.....
Civil Fund, Additional, Bengal	.....	.....	.....
Military Fund, Bengal	..	.....	.....
Military Fund, Madras	.....	.....	.....
Military Orphan Fund, Bengal	....	.....	.....
Uncovenanted Service Family Pension Fund, Bengal ...	1,099 2 0	993 9 0	2,092 11 0
General Family Pension Fund	.....	.....	.....
Hindu Family Annuity Fund	.....	.....	.....
To Deposits	.....	.....	.....
To Forest Cash Remittances (Local)—			
Forest cheques drawn	3,38,431 0 4	9,16,771 11 10	12,55,202 12 2
Inter-divisional transfers	1,051 8 6	21,653 3 5	22,704 11 11
To Advances recoverable	53,684 9 5	3,89,212 0 3	4,42,896 9 8
„ Suspense	32 4 0	27 2 0	59 6 0
To Account-current (other Governments)—			
Remittances from Government of India	22,819 13 3	2,537 14 7	25,357 11 10
Remittances from Government of Bengal	120 0 0	797 7 2	917 7 2
To Inter-Departmental Transfers—			
Public Works Department, Ordinary Branches ...	.....	557 15 11	557 15 11
Military Department, Bengal	592 12 0	953 8 11	1,546 4 11
Military Department, Madras	.....	127 3 8	127 3 8
To Civil Department—			
Jails	56 12 0	495 4 0	552 0 0
Mathematical Instrument Department	26 0 0	447 0 0	473 0 0
Miscellaneous	271 4 0	1,122 4 3	1,393 8 3
Marine Department	599 15 11	.....	599 15 11
Total	10,71,801 15 11	35,47,498 9 11	46,19,300 9 10

Cr.

	Tenasserim circle.	Pegu circle.	Total.
	Rs. A. P.	Rs. A. P.	Rs. A. P.
By Expenditure as per Annual Summary Form No. 58 ...	3,48,912 15 3	9,20,826 6 10	12,69,739 6 1
„ Deposits	.....	.....	.....
By Forest Cash Remittances (Local)—			
Remittances to treasuries	6,11,068 2 9	19,82,695 12 7	25,93,763 15 4
Inter-divisional transfers	819 11 0	23,418 13 5	24,238 8 5
By Advances recoverable	58,385 7 3	3,91,391 7 0	4,49,776 14 3
„ Suspense	28 8 0	27 5 10	55 13 10
By Account-current (other Governments)—			
Remittances to the Government of India	20,439 7 5	93 13 0	20,533 4 5
Remittances to the Government of Madras	.....	97,084 0 7	97,084 0 7
By Inter-Departmental Transfers—			
Public Works Department, State Railways	915 14 0	.....	915 14 0
Public Works Department, Ordinary Branches ...	.....	60,817 4 3	60,817 4 3
Military Department, Madras	8,204 14 4	.....	8,204 14 4
Military Department, Bombay	13,561 11 6	.....	13,561 11 6
Civil Department	....	.....	....
Jail	8,750 1 7	24,612 11 4	33,362 12 11
Miscellaneous	14 8 0	981 4 0	995 12 0
Telegraph Department	.....	159 12 0	159 12 0
Marine Department	.....	44,704 6 1	44,704 6 1
By Cash balance	700 10 10	685 9 0	1,386 3 10
Total .	10,71,801 15 11	35,47,498 9 11	46,19,300 9 10

ANNUAL FORM No. 60 [PRESCRIBED].—*Revenue received and Outstandings on account of Revenue for the year 1891-92.*

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.	Remarks.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Agency {Salween-Attaran, West Salween}	Timber and other produce	1,692 8 0	3,16,099 4 6	3,17,791 12 6	3,12,643 8 6	5,148 4 0	
Kado	Ditto	154 0 0	3,13,786 4 1	3,13,940 4 1	3,13,940 4 1	.....	
South Tenasserim ...	Ditto	.....	24,016 7 4	24,016 7 4	24,016 7 4	.....	
	Total Tenasserim Circle ...	1,846 8 0	6,53,901 15 11	6,55,748 7 11	6,50,600 3 11	5,148 4 0	
Thayetmyo	Timber and other produce	360 0 0	48,510 3 3	48,870 3 3	48,855 3 3	15 0 0	
Prome	Ditto	.....	37,013 5 6	37,013 5 6	37,013 5 6	.....	
Tharrawaddy	Ditto	.....	93,818 14 9	93,818 14 9	93,818 14 9	.....	
Rangoon	Ditto	.....	35,067 9 6	35,067 9 6	35,067 9 6	.....	
Toungoo	Ditto	5 4 11	2,31,409 12 0	2,31,415 0 11	2,31,175 4 2	239 12 9	
Shwegyin	Ditto	.....	60,350 8 9	60,350 8 9	60,350 8 9	.....	
Western	Ditto	.....	82,549 5 10	82,549 5 10	82,549 5 10	.....	
Agency	Ditto	38,762 4 0	15,79,622 11 7	16,18,384 15 7	15,85,226 3 7	33,158 12 0	
	Total Pegu Circle ..	39,127 8 11	21,68,342 7 2	22,07,470 0 1	21,74,056 7 4	33,413 8 9	
	GRAND TOTAL LOWER BURMA ...	40,974 0 11	28,12,244 7 1	28,63,218 8 0	28,24,656 11 3	38,561 12 9	

ANNUAL FORM NO. 61 [PRESCRIBED].—*Outstandings and Liabilities on account of Contractors and Disbursers for the year 1891-92.*

Division.	Department debtor			Department creditor			Balance due		Remarks.
	At commencement of year	Recoveries in cash and value of supplies and work done during the year	At close of year	At commencement of year	Payments made during year	At close of year	To department (outstandings)	By department (liabilities)	
	Rs A. P	Rs. A P	Rs A. P	Rs. A P	Rs A P	Rs A P	Rs A P	Rs A P	
Agency	...	50,224 0 0	50,224 0 0	4,325 6 6	54,355 14 10	58,681 5 4	8,457 5 4	...	
Kado	...	2,419 6 6	2,419 6 6	376 15 6	2,243 8 2	2,620 7 8	201 1 2	..	
South Tenasserim	...	1,041 2 11	1,041 2 11	234 8 0	1,786 0 3	2,020 8 3	979 5 4	.	
Total .		53,684 9 5	53,684 9 5	4,936 14 0	58,385 7 3	63,322 5 3	9,637 11 10	.....	
Agency	...	4,440 8 7	4,440 8 7	969 0 6	4,699 10 4	5,668 10 10	1,228 2 3	.....	
Rangoon .	59 11 3	49,730 12 2	49,790 7 5	1,413 3 7	49,201 8 1	50,614 11 8	829 3 1	4 14 10	
Tharrawaddy	...	1,99,511 6 4	1,99,511 6 4	8,233 6 1	1,97,919 7 2	2,06,152 13 3	6,641 6 11	. ...	
Prome	...	50,639 13 4	50,639 13 4	11,337 14 8	40,349 10 8	51,687 9 4	1,047 12 0	...	
Thavetmyo	....	13,695 4 9	13,695 4 9	251 3 9	14,066 10 1	14,317 13 10	622 9 1	... .	
Western	. ...	3,708 12 10	3,708 12 10	55 0 0	3,949 5 0	4,004 5 0	295 8 2	...	
Toungoo	...	65,267 10 9	65,267 10 9	9,353 1 7	75,387 8 2	84,740 9 9	19,472 15 0	... .	
Shwegyin	.	2,217 11 6	2,217 11 6	..	5,817 11 6	5,817 11 6	3,600 0 0	.	
Total .	59 11 3	3,89,212 0 3	3,89,271 11 6	31,612 14 2	3,91,391 7 0	4,23,004 5 2	33,737 8 6	4 14 10	

J BRIDGNELL, *Chief Superintendent,*
in Charge Forest Account Branch, Comptroller-General's Office.

ANNUAL FORM NO. 62 [PRESCRIBED].—*Statement showing the Financial Results in the Tenasserim and Pegu Circles for the year 1891-92.*

Division.		Timber and other produce removed from the forests by Government agency.		Other revenue.		Formation, protection, and improvement of forests.	Total.		Remarks.
		Receipts.	Charges.	Receipts.	Charges.	Charges	Receipts.	Charges.	
		Rs	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	
Tenasserim	Western Salween	36,909	31,158	1,325	1,460	13,943	38,234	46,561	
	Salween-Attaran	2,21,220	1,37,537	53,190	10,874	49,784	2,74,410	1,98,195	
	Kado	16,122	13,472	2,97,818	66,900	...	3,13,940	80,372	
	Agency	...	6,716	...	1,222	...	...	7,938	
	South Tenasserim	2,874	4,999	21,142	5,597	5,251	24,016	15,847	
	Total	2,77,125	1,93,882	3,73,475	86,053	68,978	6,50,600	3,48,913	
Pegu	Thayetmyo	9,326	23,298	40,789	6,671	12,388	50,115	42,357	
	Prome	83,787	66,310	24,052	9,607	36,218	1,07,839	1,12,135	
	Tharrawaddy	6,85,047	2,56,428	83,089	11,922	63,110	7,68,136	3,31,460	
	Rangoon	2,37,260	76,618	32,292	9,439	20,469	2,69,152	1,06,526	
	Toungoo	5,87,560	2,07,978	2,28,385	10,083	21,666	8,15,945	2,39,727	
	Shwegyin	30,287	26,427	57,395	6,290	7,969	87,682	40,686	
	Western	13,208	18,347	69,341	10,107	9,255	82,549	37,709	
	Agency	2,467	...	23,229	9,987	...	25,696	9,987	
	Total	16,48,942	6,75,406	5,58,572	74,106	1,71,075	22,07,514	9,20,587	
Grand Total Lower Burma		19,26,067	8,69,288	9,32,047	1,60,156	2,40,053	28,58,114	12,69,500	

APPENDIX A.

Statement showing the cost of feed of Elephants of the Forest Department for the year 1891-92 as compared with that of the Commissariat Department for the same period.

Division.	Number of elephants at commencement of the year.	Casualties during the year.	Number of elephants at close of the year	Cost of feed.	Cost of keep, including gear, &c.	Cost of medicines.	Total expenditure for the year.	Average monthly cost per animal of the Forest Department.	Average monthly cost per animal of the Commissariat Department.	Amount paid by officers for carriage elephants.	Value of labour in cash receipts and work performed	Remarks.
				Rs. A. P	Rs. A. P	Rs. A. P.	Rs. A. P.	Rs. A. P	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Tenasserim Circle.												
Agency	2	...	2	932 11 0	624 0 0	2 0 0	1,558 11 0	31 7 10	(b)	.....	1,800 0 0	(a) Includes a calf.
Salween-Attaran	7	...	7(a)	.	1,967 9 0	.	1,967 9 0			169 0 0	.....	(b) No comparison can be made as there were no commissariat elephants maintained at Moulmein during the year.
West Salween	1	...	1	... .	312 2 0	.....	312 2 0			.....	100 0 0	
Kaao	1	...	1	.....	324 0 0	.....	324 0 0			25 0 0	.....	
Total ...	11	...	11	932 11 0	3,227 11 0	2 0 0	4,162 6 0	.....	.....	194 0 0	1,900 0 0	
Pegu Circle.												
Thayetmyo	2	...	2	.....	600 15 3	2 3 0	603 2 3	40 4 2	45 15 6	146 0 0	640 0 0	
Prome	10	..	11	.....	3,074 0 3	51 6 3	3,125 6 6			442 0 0	10,460 0 0	
Tharrawaddy	3	...	3	.....	938 11 6	13 9 0	952 4 6			223 0 0	3,840 0 0	
Rangoon	2	...	2	. .	622 6 0	.....	622 6 0			47 0 0	380 0 0	
Toungoo	2	...	3	.....	563 10 4	15 2 0	578 12 4			82 0 0	660 0 0	
Shwegyin	2	..	2	. ..	638 0 8	73 9 0	711 9 8			139 0 0	632 0 0	
Western	3	...	3	.....	932 12 0	6 0 0	938 12 0			87 0 0	675 12 0	
Agency	12	...	12	5,866 8 0	4,752 7 0	208 6 0	10,827 5 0			1,453 10 9	25,756 6 0	
Total .	36	...	38	5,866 8 0	12,122 15 0	370 3 3	18,359 10 3	.....	... .	2,619 10 9	43,044 2 0	
Grand Total Lower Burma ...	47	..	49	6,799 3 0	15,350 10 0	372 3 3	22,522 0 3	.....	.....	2,813 10 9	44,944 2 0	

APPENDIX B.

List of Buildings of which the cost exceeds Rs 200 in Lower Burma.

Division.	No.	Name of building	Station	Remarks
		TENASSERIM CIRCLE.		
		(a) On which no rent is paid.		
Salween-Attaran	1	Forest office	Moulmein.	
	3	Elephant-sheds		
	1	Paddy-shed		
	1	Rest-house	Natchaung.	
	1	Guard-house	Nantè.	
	4	Guard-houses	Moulmein.	
	1	Rest-house	Gyaing on the Haungtharaw.	
	1	Bungalow	Kawkareik.	
	1	Rest-house	Mepale.	
	1	Guard-house	Gyaing	
South Tenasserim	1	Office	Mergui.	
	1	Guard-house	Tavoy.	
Kado	1	Guard-house	Martaban	
	1	Guard-house	Moulmein	
	3	Offices and two out-houses	Kado	
	1	Lascar's-house		
	1	Upper guard-house		
	1	Lower guard-house		
	1	Coal-shed	Battery Point	
	1	Bungalow	Shwegun.	
	1	Forest Ranger's quarters		
West Salween	1	Rest-house	Kyunchaung	
		(b) On which rent is paid.		
Salween-Attaran	1	Bungalow	Kawkareik.	
		PEGU CIRCLE.		
		(a) On which no rent is paid.		
Prome	5	Rest-houses	Kadinngasin, Taunglè, Themè, Kwingyi, and Taungamauk	
	1	Forest bungalow	Paungdè	
	1	Ranger's quarters	Kadinngasin	
	1	Elephant-shed	Migyaungye	
Tharrawaddy	1	Forest office	Tharrawaddy.	
	9	Rest-houses	Wè, Seywa, Yetho, Kangyi, Hmawin, Kanzan, Bawbin, Nyanlè, and Kwemakaing	
Rangoon	1	Forest bungalow	Pegu.	
	3	Revenue stations	Taikkyi, Hlegu, and Pegu.	
	2	Rest-houses	Palôn and Kinpadi.	
Toungoo	1	Forest office	Toungoo.	
	6	Rest-houses	Tabetkwè, Zibyubin, Banhwè-bin, Minye, Pathichaung, and Pyunchaung	
	1	Overseer's quarters	Toungoo.	
Shwegyin	1	Rest-house	Myitkyo.	
	2	Depôt gaung's quarters	Myitkyo and Inbaiwè	
Agency	1	Officer's quarters	Kemmendine.	
	1	Overseer's house		
	6	Guard houses		
	1	Mahout's quarters		
	1	Elephant-shed		
	1	Seasoning-shed		
		(b) On which rent is paid.		
Thayetmyo	1	First-class bungalow	Thayetmyo.	
Prome	1	Forest bungalow	Prome.	
Tharrawaddy	1	First-class bungalow	Tharrawaddy.	
Toungoo	1	First-class bungalow	Toungoo.	
Shwegyin	1	Forest bungalow	Shwegyin.	

APPENDIX C.

Statement showing the Exports of Timber and other Forest Produce from the Port of Rangoon for the year 1891-92 (Private and Government).

Articles and countries to which exported.		Quantity.	Value.
			Rs.
Wood—			
Teak—			
To United Kingdom	C. tons	28,266	29,35,991
" Belgium	"	...	...
" France, Marseilles	"	100	12,000
" Germany, Bremen and Hamburg	"	1,047	34,750
" Malta	"	35	3,875
" Spain, Gibraltar	"	...	...
" Cape Colony, Cape Town	"	...	...
" Egypt, Port Said	"	409	40,847
" Mauritius	"	...	...
" Natal	"	300	30,000
" Ceylon	"	1,821	1,13,960
" China, Hongkong	"	2	157
" Straits Settlements	"	113	12,676
" Bengal, Calcutta	"	15,488	10,05,448
" Bengal, other ports	"	85	7,314
" Bombay, Bombay	"	27,755	16,47,175
" Sind	"	2,044	1,14,610
" Madras, Madras	"	14,421	9,28,348
" Madras, other ports	"	6,138	4,88,131
" Provincial ports	"	636	59,351
" Pondicherry	"	876	78,080
Total	...	99,636	75,12,713
Other timber—			
To United Kingdom	Tons	11	435
" Cape Colony, Cape Town	"	...	...
" Egypt, Port Said	"	...	...
" Cochin-China, Saigón	"	5	340
" Straits Settlements	"	5	430
" Bengal, Calcutta	"	204	9,496
" Bengal, other ports	"	1	114
" Bombay, Bombay	"	...	...
" Sind	"	38	4,400
" Madras, Madras	"	2	100
" Madras, other ports	"	12	577
" Provincial ports	"	25	548
" Pondicherry	"	5	440
Total	...	308	16,880
Firewood—			
To Madras, other ports	Tons	4	30
" Provincial	"	...	
Total	...	4	30
Sandalwood—			
To Straits Settlements	Value	...	40
" Bengal, Calcutta	"	...	260
" Bombay, Bombay	"	...	300
" Provincial ports	"	...	739
Total	...	...	1,339
Teak railway keys—			
To Bengal, Calcutta	Cwt.	230	684
" Bombay, Bombay	"	...	...
" Provincial ports	"	...	...
Total	.	230	684
Wooden sleepers—			
To Bengal, Calcutta	Cwt.	800	2,129
" Bombay, Bombay	"	1,800	600
" Madras, Madras	"	2,014	5,569
" Madras, other ports	"	1,09,784	3,13,785
Total	..	1,14,398	3,22,083
Manufactures of—			
To United Kingdom	Value	...	195
" France	"	...	...
" Germany, Bremen	"	...	...
" Malta	"	...	...
" Egypt, Port Said	"	...	...
" Mauritius	"	...	...
" Siam	"	...	24
" Straits Settlements	"	...	...
" Bengal, Calcutta	"	...	3,378
" Bengal, other ports	"	...	979
" Bombay, Bombay	"	...	70
" Madras, Madras	"	...	45
" Madras, other ports	"	...	64,098
Provincial ports	"	...	10,853
" Pondicherry	"	...	51,947
Total	..	...	1,31,589

APPENDIX C—concluded.

Statement showing the Exports of Timber and other Forest Produce from the Port of Rangoon for the year 1891-92 (Private and Government)—concluded.

Articles and countries to which exported.		Quantity.	Value.
			Rs.
GUMS AND RESINS—			
Cutch and gambier—			
To United Kingdom	Cwt.	86,872	14,42,300
" France	"	3,970	69,190
" Germany	"	14,579	2,35,927
" Holland	"	2,126	39,170
" Italy	"	3,500	74,250
" Spain	"	1,300	23,400
" Egypt	"	8,884	1,34,794
" Ceylon	"	1,218	25,780
" Belgium	"	1,815	34,143
" China	"	5	75
" Straits Settlements	"	9,410	1,40,252
" Bengal, Calcutta	"	104,657	16,36,332
" Bengal, other ports	"	73	1,519
" Bombay, Bombay	"	6,097	93,863
" Madras, Madras	"	2,006	44,175
" Madras, other ports	"	2,023	46,688
" Provincial ports	"	229	5,272
Total		248,764	40,47,539
LAC—			
Stick—			
To United Kingdom	Cwt	183	5,126
" Straits Settlements	"	3	75
" Bengal, Calcutta	"	3,498	92,169
" Madras, Madras	"	1,590	44,371
" Madras, other ports	"	670	19,175
" Provincial ports	"	153½	4,322
Total		6,097½	1,65,398
OILS—			
Wood—			
To Straits Settlements	Galls.	180	135
" Bengal, Calcutta	"	.....	.....
" Bombay, Bombay	"	137	100
" Madras, Madras	"	28,248	24,390
" Madras, other ports	"	518	441
" Provincial ports	"	20	15
Total		29,103	25,081

APPENDIX C (*a*).

Statement showing the Imports of Timber and other Forest Produce into the Port of Rangoon for the year 1891-92 (Private and Government).

Articles and countries from which imported.		Quantity.	Value
			Rs.
WOOD—			
Teak—			
From Bengal, Calcutta	C tons	1	60
" Provincial ports	"	1,877	1,41,858
Total		1,878	1,41,918
Other Timber—			
From United Kingdom	Tons	22	1,099
" United States	"	7	60
" Straits Settlements	"	230	15,353
" Bengal, Calcutta	"	3	260
" Bengal, other ports	"	605	22,758
" Provincial ports	"	2,025	90,190
Total		2,892	1,29,820
Firewood—			
From Siam	Tons	137	1,560
" Straits Settlements	"	399	5,132
" Provincial ports	"	37	335
Total		573	7,027
Sandalwood—			
From Straits Settlements	Value	.....	50
" Bengal, Calcutta	"	.....	347
" Bombay, Bombay	"	.....	13,928
" Madras, Madras	"	.....	7,024
" Provincial ports	"	.....	2,278
" Pondicherry	"	.....	30
Total			23,657
Manufactures of—			
From United Kingdom	Value	.....	26,136
" France, Marseilles	"	.....	50
" Germany	"	.....	1,685
" Ceylon	"	.....	250
" Siam	"	.....	9
" Straits Settlements	"	.....	50,078
" Bengal, Calcutta	"	.....	1,21,938
" Bengal, other ports	"	.....	7,384
" Bombay, Bombay	"	.....	370
" Madras, Madras	"	.....	468
" Madras, other ports	"	.....	208
" Provincial ports	"	.....	43,754
" Pondicherry	"	.....	75
Total		.....	2,52,405
GUMS AND RESINS—			
Cutch and Gambier—			
From Bengal, Calcutta	Cwt.	31	922
" Other ports	"	9	140
" Provincial ports	"	28	445
Total		68	1,507

APPENDIX C (*a*)—concluded.

Statement showing the Imports of Timber and other Forest Produce into the Port of Rangoon for the year 1891-92 (Private and Government)—concluded.

Articles and countries from which imported.		Quantity.	Value.
			Rs.
LAC—			
Stick—			
From Provincial ports	Cwts.	9	280
Total ...		9	280
OILS—			
Wood—			
From Straits Settlements	Galls.	824	1,471
" Provincial ports	"	19,227	6,004
Total ...		20,051	7,475

APPENDIX C (1).

Statement showing the Exports of Teak Timber from Moulmein for the year 1891-92.

Countries to which exported.		Quantity.	Value.
			Rs.
United Kingdom	Tons	6,831	7,01,372
Belgium	"	40	3,004
Germany	"	339	35,175
Spain, Gibraltar	"	1,325	1,46,458
Cape Colony	"	1,260	1,18,727
Egypt, Port Said	"	197	20,611
Mauritius	"	140	10,505
Ceylon	"	517	29,300
Straits Settlements	"	13	900
Bengal, Calcutta	"	18,419	12,33,662
Bengal, other ports	"	144	9,901
Bombay, Bombay	"	22,166	12,66,702
Madras, Madras	"	1,454	83,368
Madras, other ports	"	7,541	4,03,703
Provincial ports	"	1,235	88,744
Pondicherry	"	704	36,185
Total ...		62,329	41,88,267

APPENDIX C (2-*a*).

TENASSERIM CIRCLE.

Statement showing the Exports of Shingles, Railway Keys, and Woods of other kinds from Moulmein, Tavoy, and Mergui for the year 1891-92.

Articles.	Whither exported.		Moulmein.		Tavoy.		Mergui.	
			Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
				Rs.		Rs.		Rs.
Teak shingles, staves, and ventilators.	France	Tons	...	240	...	...	...	...
	Germany	"	...	240	...	...	...	...
	Malta	"	...	828	...	...	...	...
	Egypt	"	...	5,771	...	...	...	...
	Mauritius	"	...	50,573	...	...	...	...
	Straits Settlements	"	...	17,217	.	...	...	...
	Bengal, Calcutta	"	...	58,044	...	...	...	...
	Madras, other ports	"	...	459	...	...	...	..
	Provincial ports	"	...	31,868	...	...	...	...
Teak railway keys.	Bombay, Bombay	Cwt.	1,628	5,236	...	...	...	...
	Provincial ports	"	514	1,936	...	..	...	...
Other timber ...	United Kingdom	Tons	42	1,677	...	...	...	...
	Cape Colony	"	1	55	...	...	...	...
	Egypt	"	136	6,513	...	...	...	...
	Bengal, Calcutta	"	2,922	1,03,809	432	16,445	...	...
	Bombay, Bombay	"	67	6,077	...	...	...	...
	Madras, Madras	"	93	6,673	...	...	...	...
	Madras, other ports	"	1,305	74,319	...	...	...	...
	Provincial Ports	"	2,050	78,680		..	...	...
	Pondicherry	"	33	1,299		.	...	...

APPENDIX C (2-*b*).

Statement showing the Exports of Boat-hulls and other Timber from the Port of Tavoy for the years 1890-91 and 1891-92.

Articles.	Whither exported.	1890-91.		1891-92.	
		Quantity.	Value.	Quantity.	Value.
			Rs.		Rs.
Boat-hulls ...	Provincial ports	107	1,10,750	121	1,43,450
Other timber	Bengal, Calcutta	416¼	17,651	432	16,445
	Provincial ports	179	5,380	113	3,785
	Total ...	...	1,33,781	...	1,63,680

APPENDIX C (3).

TANASSERIM CIRCLE.

Statement showing the Exports of Minor Forest Produce from the Ports of Moulmein, Tavoy, and Mergui for the year 1891-92.

Articles.	Whither exported.	Moulmein.		Tavoy.		Mergui.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
			Rs.		Rs.	No.	Rs.
Firewood	Provincial Ports ... Tons	4	20	2	15	29,900	372
Sandalwood	Ditto ... ... Viss	...	6	1	306	9,362	2,104
Cutch and gambier ...	Ditto ... Cwt	31	530	...	...	...	...
Wood-oil ...	Bengal, Calcutta ... Gallns.	1,151	800	...	...		.
	Madras, Madras ... "	752	600	...	...	..	...
	Madras, other ports ... "	60	280	...	...	..	.
	Provincial ports ... "	.	...	...	...	14,379	5,969
Tanning barks ...	Ditto ... ... Cwt	...	...	307	982		
Ondon bark	Ditto ... ... "	...	...	38	1,581	Viss 6,490	520
Cardamoms	Ditto ... . "	...	...	11	13,394	" 1,164	1,984
Dammer torches ...	Ditto ... No.	...	...	3,000	80	...	...
Kanyin-fruit ...	Ditto ... .. Bkts.	...	...	692	630		...
Chestnuts	Ditto .. "	...	...	15	17	...	...
Orchids	Ditto .. ... "	...	...	105	168	...	...
Walnuts	Ditto ... "	...	..	318	51	...	...
Akyaw-wood	Ditto ... ... Cwt.	...	...	...	...	29	7,023
Pyu bark	Ditto ... ... Viss	...	...	...	...	88,500	992
Rattans	Ditto . No	...	...	...	.	12,179,500	48,989
Red-wood	Ditto ... .. Cwt.	...	...	...	.	3,044	3,795
Torches	Ditto ... ... No.	...	...	...	...	732,845	25,783
Karawè leaves	Ditto ... . Viss	...	...	...	...	4,210	316
Karawè fruit	Ditto ... ... "	...		...	...	110	50
Dammer	Ditto ... "	...	..	...	...	200	30
Honey	Ditto ... "	...	...	...	...	2,344	1,345
Beeswax	Ditto ... ... Cwt.	...	...	...	...	2	210
Fibre	Ditto ... .. Viss	...	...	...	...	11,150	757
Guano	Ditto .. .. Cwt.	...	...	...	...	830	1,080

APPENDIX C (4).

Statement showing the Imports of Timber and other Forest Produce into the Ports of Moulmein, Tavoy, and Mergui for the year 1891-92.

Articles.	Whence imported.	Moulmein.		Tavoy.		Mergui	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
			Rs.		Rs.		Rs.
Teak timber	.....	...	...	Tons 2	109	1½	62
Teak shingles	.....	...	...	No. 41,075	741	...	...
Sandalwood	.....	...	...	Tons 1-6-0-8	413	Viss 132	46
Wood-oil	.....	...	..	Gal. 200	146	...	...
Firewood	.....	...	...	Tons 8	68	...	
Vegetable fibre for cordage	.....	...	...	Tons 16-8-2-18	1,024	..	...
Dammer torches ...	.....	...	...	No. 5,700	168	...	...
Tagu planks	.....	..	...	Tons ...	...	Tons 2½	108
Honey	.....	...	...	Viss ...	...	Viss 100	60

APPENDIX D.

TENASSERIM CIRCLE.

Statement of Teak Trees girdled during the season 1891-92.

Division.	Girdling officer	Revising officer.	Forest district.	Locality.	Number of teak trees.	Remarks.
Salween-Attaran.	Forest Ranger ...	.....	Thaungyin valley	Megla, Po, and Ta-u streams	83	
	Maung Tha Gyaw ...	.....		Megla stream	33	
				Total Salween-Attaran ...	116	
Kado.	Mr. A. Weston, Deputy Conservator of Forests.	.....	Lower Dôndami forest.	On the Dôndami and its feeders	298	
				On the Kyunmathwè chaung and its feeders	202	
				Total Kado ...	500	
				GRAND TOTAL TENASSERIM CIRCLE ...	616	

PEGU CIRCLE.

Statement of Teak Trees girdled during the season 1891-92.

Division.	Girdling officer.	Revising officer.	Range.	Forest district.	Locality.	Number of teak trees girdled.	Total.	Remarks.
Thayetmyo.	Maung Yan, Forest Ranger.	Mr. F. W. Thelluson, Deputy Conservator of Forests.	Myedè ...	Bangôn	On the south bank of the Bangônchaung—			
					Lèwôumyaung	81		
					Alè chaung	71		
					Thaybèmyaung	218		
					Chitsamyaung	7		
					Talabaywa	36		
					On the north bank of the Bangôn chaung—			
					Tapalaing chaung	19		
					Malèthaywa ...	30		
					Nyaungpuketywa	38		
					Total Thayetmyo ...	..	500	Outside reserves.
Prome.	Maung Aung, Forest Ranger.	Mr. C. H. Hobart-Hampden, Deputy Conservator of Forests.	Nawin ...	Nawin ..	North Nawin stream	500		
					Total Prome	...	500	Outside reserves.
Tharrawaddy.	Mr. W. F. L. Tottenham, Assistant Conservator of Forests.	...	...	Taungnyo working circle.	Compartment No. 1	74		
					Compartment No. 2	67		
					Compartment No. 3	324		
					Compartment No. 61	1,105		
					Compartment No. 64	339		
					Total Taungnyo .	1,909		
	Mr. W. F. L. Tottenham, Assistant Conservator, and Maung Kalè, Extra Assistant Conservator of Forests.	Mr. G. Q. Corbett, Deputy Conservator of Forests.	...	Bawbin working circle.	Compartment No. 76	1,094		
					Total Bawbin ...	1,094		
	Mr. G. R. Long, Assistant Conservator of Forests.	...	...	Gamôn working circle.	Compartment No. 59	74		
					Compartment No. 60	103		
					Compartment No 61	61		
					Compartment No. 62	41		
					Compartment No. 63	15		
					Compartment No. 64	236		
					Compartment No. 65	138		
					Compartment No. 66	15		
					Compartment No. 67	25		
					Compartment No. 68	106		
					Compartment No. 69	147		
					Total Gamôn	961		

PEGU CIRCLE—concluded.

Statement of Teak Trees girdled during the season 1891-92—concluded.

Division.	Girdling officer.	Revising officer.	Range.	Forest district.	Locality.	Number of teak trees girdled.	Total.	Remarks.
Tharrawaddy—*concluded.*	Mr. G. R. Long, Assistant Conservator of Forests.	...	...	Minhla working circle.	Compartment No. 16	10		
					Compartment No. 17	6		
					Compartment No. 18	10		
					Compartment No. 19	169		
					Total Minhla ...	195		
	Mr. G. R. Long, Assistant Conservator of Forests.	...	...	Môkka working circle.	Compartment No. 46	164		
					Compartment No. 47	300		
					Compartment No. 48	2		
					Compartment No. 49	10		
					Total Môkka ...	476		
	Maung Wè, Extra Assistant Conservator of Forests.	Mr. G. Q. Corbett, Deputy Conservator of Forests.	...	Kadin-Bilin working circle.	Compartment No. 33	645		
					Compartment No. 36	201		
	Mr. G. R. Long, Assistant Conservator of Forests.	...	...	Kôn-Bilin working circle.	Compartment No. 31	299		
					Total Kadin-Bilin ...	1,205		
	Mr. G. R. Long, Assistant Conservator of Forests.	...	...	Thônzè working circle.	Compartment No. 13	28		
					Compartment No. 14	90		
	Maung Wè, Extra Assistant Conservator of Forests.	Mr. G. Q. Corbett, Deputy Conservator of Forests.	...	...	Compartment No. 20	88		
					Total Thônzè ...	206		
					Total Tharrawaddy ...	...	6,046	
Rangoon.	Maung Gauk, Forest Ranger.	Mr. J. Nisbet, Deputy Conservator of Forests.	Hlaing ...	Hanthawaddy ...	Hlaing forests	151	...	Outside reserves.
	Mr. G. R. Long, Assistant Conservator of Forests.	Mr. J. Nisbet, Deputy Conservator of Forests.	Zamayi ...	Pegu ...	Kadat Kweganchaung	285		
					South Zamayi Wapyumyaung	500		
	Maung Tha Ka Do, Forest Ranger.	Mr. J. Nisbet, Deputy Conservator of Forests.	...	...	Zamayi forest, east of Pegu river	516	...	Outside reserves.
					Zamayi forest, west of Pegu river	401	...	
					Total Rangoon ...	...	1,854	
Toungoo.	Maung Yaing, Forest Ranger.	Mr. F. J. Branthwaite, officiating Deputy Conservator of Forests.	Thagaya...	Bimbyè ...	Mihawchaung	670		
					Yinthèchaung	34		
					Bimbyèchaung	272		
					Total Bimbyè ...	966		
	Maung Yaing, Forest Ranger.	Mr. F. J. Branthwaite, officiating Deputy Conservator of Forests.	Bônmadi...	Pyinthila ...	Pyinthila forest	4,580		
	Mr. G. R. Long, Assistant Conservator of Forests.	...	Bônmadi...	Kanni ...	Kanni forest	3,282		
	Maung Chit Su, Forest Ranger.	Mr. F. J. Branthwaite, officiating Deputy Conservator of Forests.	Zeyawadi	Kabaung ...	Kabaung	179		
					Total Toungoo ...	...	8,927	Outside reserves.
Shwegyin.	Mr. G. F. R. Blackwell, officiating Deputy Conservator of Forests.	Mr. G. F. R. Blackwell, officiating Deputy Conservator of Forests.	Bawni ...	Yenwè ...	Lechaung	210		
					Udochaung	430		
	Maung Yaung Ni, Forest Ranger.	...	Bawni ...	Yenwè ...	Between Yenwè and Baingda chaungs—			
					Gewegu	200		
					Myochaung	161		
					Yèlè	105		
					Total Shwegyin ...	...	1,106	Outside reserves.
					TOTAL PEGU CIRCLE ...	...	18,933	

APPENDIX E.

Statement of Outturn of Foreign Timber in the Tenasserim Circle for the five years 1887-88 to 1891-92.

Name of Foreign State.	1887-88.						1888-89.						1889-90.					
	Full-sized	Tons	Under-sized	Tons	Stem pieces.	Tons.	Full sized	Tons.	Under-sized	Tons.	Stem pieces	Tons.	Full-sized	Tons.	Under sized.	Tons	Stem pieces	Tons.
Karenni	50,073	45,600	4,163	2,900	1,220	710	66,358	6,730	6,400	6,000	1,387	700	41,427	36,455	6,862	4,111	1,101	464
Mehan	...	...	...	...	...		935	930	..	...	13	6	1,270	1,066		..	...	...
Kyaingtaung	4,286	4,200	388	271	384	200	6,365	6,200	866	700	1,210	600	8,339	7,338	1,009	605	2,610	1,096
Mainglôngyi	12,508	12,500	1,781	1,400	253	126	15,049	16,300	1,333	1,200	852	500	8,711	7,665	930	558	756	317
Thaungyin	15,242	14,500	10,607	7,500	2,931	1,500	11,087	11,200	8,582	8,300	870	500	19,015	16,733	10,050	6,030	3,648	1,532
Dagwin	1,629	1,800	1,563	940	29	16	480	600	627	600	38	20	1,750	1,540	464	278	34	14
Zimmè	7,274	7,277	1,009	620	903	460	4,323	4,400	343	300	250	130	3,283	2,889	174	105	354	149
Mèhaungthun	2,330	2,050	161	100	24	13	7,893	8,900	293	200	52	29	8,810	7,752	162	97	30	12
Maingpan	..	...	...	...	..	...			...	...		...	1,030	906	240	143	120	50
Mônpè	...		..	...	...		149	140	...	...	..	..	30	26	27	16	...	..
Maingtun	..	...	...	...		...	..		...	.	...	.	307	270	1		284	119
Ningvan	...	...	...	.	...	...		..			...	...	396	348	349	209	49	20
Maukmè	.	...	...	...	.					...	..	...	..				...	...
Maingpu	...	..	...	...	.			..			...	...	...	.			...	..
Maingkvut	..	.	...		...	.	..			...	...	...	...		.	...	...	...
Kyaingkhan	..	.	.		..	...	.	...	..				..				.	
GRAND TOTAL ...	93,542	87,927	19,672	13,731	5,744	3,025	112,639	55,400	18,444	17,300	4,672	2,485	94,368	82,988	20,268	12,152	8,986	3,773

Statement of Outturn of Foreign Timber in the Tenasserim Circle for the five years 1887-88 to 1891-92—concluded.

Name of Foreign State.	1890-91. Full-sized.	Tons.	Under-sized.	Tons.	Stem pieces.	Tons.	1891-92. Full-sized.	Tons.	Under-sized.	Tons.	Stem pieces.	Tons.
Karenni	29,829	28,039	4,379	3,240	1,037	503	18,579	17,584	8,134	6,343	598	370
Mèhan	2,015	1,894	36	27	12	7	1,058	1,017	27	20	4	2
Kyaingtaung	9,267	8,711	805	596	1,159	561	5,049	4,841	646	502	290	176
Mainglôngyi	9,352	8,791	2,120	1,569	1,380	668	12,382	11,863	3,026	2,349	1,929	1,190
Thaungyin ...	16,365	15,383	12,831	9,495	1,760	852	3,230	3,090	8,770	6,830	1,530	943
Dagwin	1,585	1,400	589	436	56	29	980	936	1,230	948	40	24
Zimmè	2,904	2,730	255	189	106	53	2,991	2,869	336	251	37	22
Mèhaungthun ...	11,889	11,176	235	173	93	47	3,765	3,609	81	62	935	574
Maingpan	1,604	1,508	162	120	60	31	1,465	1,403	504	383	79	48
Mônpè	...	.	.	..	...	...	595	566	...		125	77
Maingtun	1,470	1,382	36	27	127	63	840	802	187	145	185	114
Ningyan	1,761	1,655	70	51	28	14	2,426	2,336	344	260	624	381
Maukmè	531	500	45	33	4	3	937	895	147	113	47	26
Maingpu ...	164	154	36	27	42	22	72	68	15	11	35	15
Maingkyut	...	..	...	...		..	6	5	8	6		..
Kyaingkhan	119	112	.		3	2		...	..	...	.	...
GRAND TOTAL ..	88,856	83,435	21,599	15,983	5,867	2,855	54,375	51,980	23,455	18,223	6,448	3,962

Comparison of percentage of increase or decrease as compared with percentage or increase or decrease of the previous year

		1890-91. Increase per cent.	1890-91. Decrease per cent	1891-92. Increase per cent.	1891-92. Decrease per cent.
Karenni ...	Full-sized	...	27	...	38
	Under-sized	...	36	46	...
	Stem pieces	...	6	.	41
Mehan ...	Full-sized	4	.	...	47
	Under-sized	...	..	...	35
	Stem pieces	.		...	66
Kyaingtaung ...	Full-sized	10	...	...	45
	Under-sized		20		19
	Stem pieces		56	...	75
Mainglôngyi ...	Full-sized	7	...	24	...
	Under-sized	56	...	30	...
	Stem pieces	45	...	28	...
Thaungyin ...	Full-sized	.	13	...	80
	Under-sized	22	.	...	32
	Stem pieces	...	52	...	13
Dagwin ...	Full-sized	...	9	.	38
	Under-sized	21	..	53	...
	Stem pieces	39	.	...	29
Zimmè ...	Full-sized		12	3	
	Under-sized	31	.	24	..
	Stem pieces		70	..	66
Mehaungthun ...	Full-sized	25	..	...	68
	Under-sized	31	.	.	66
	Stem pieces	68	...	90	.
Maingpan ..	Full-sized	36			9
	Under-sized		32	68	...
	Stem pieces	.	50	24	.
Mônpè ...	Full-sized, Under-sized, Stem pieces } Not worked in 1890-91 ..	...	...	.	.
Maingtun ...	Full-sized	79			43
	Under-sized	97	...	81	.
	Stem pieces		55	31	...
Ningyan	Full-sized	78		27	
	Under sized		80	80	
	Stem pieces	.	44	96	.
Maukmè	Full-sized	.		43	
	Under-sized	..		69	
	Stem pieces			92	...
Maingpu ...	Full-sized	..	.		56
	Under-sized	.			58
	Stem pieces	..			40
Maingkyet ...	Full-sized, Under-sized, Stem pieces } Not worked in 1890-91		...		
Kyaingkhan ...	Full-sized, Under-sized, Stem-pieces } Not worked in 1891-92	.	...	..	..

APPENDIX F.

Statement showing the Exports of Timber and other Forest Produce from the Port of Moulmein for the year 1891-92 (Private and Government).

Articles and countries to which exported.		Quantity.	Value.
			Rs.
Wood—			
Teak—			
To United Kingdom	Cubic tons	6,831	7,01,372
" Belgium	"	40	3,004
" Germany, Bremen	"	339	35,175
" Spain, Gibraltar	"	1,325	1,46,408
" Malta	"	.....	.....
" Egypt, Port Said	"	197	20,611
" Mauritius	"	140	10,505
" Canada	"	.....	.....
" South America, Rio de Janeiro	"	.....	.....
" Cape Colony, Cape Town	"	1,260	1,18,727
" Ceylon	"	517	39,300
" Japan	"	.....	.....
" Straits Settlements	"	13	900
" Bengal, Calcutta	"	18,410	12,33,662
" Bengal, other ports	"	144	9,901
" Bombay, Bombay	"	22,166	12,66,702
" Madras, Madras	"	1,454	83,368
" Madras, other ports	"	7,541	4,03,703
" Provincial ports	"	1,239	88,744
" Pondicherry	"	704	36,185
Total ...		62,320	41,88,207
Other timber—			
To United Kingdom	Tons	42	1,677
" Cape Colony	"	1	55
" Egypt	"	136	6,513
" Bengal, Calcutta	"	2,922	1,03,809
" Bombay, Bombay	"	67	6,077
" Madras, Madras	"	93	6,673
" Madras, other ports	"	1,305	74,319
" Provincial ports	"	2,060	78,680
" Pondicherry	"	33	1,299
Total ...		6,659	2,79,102
Firewood—			
To Provincial ports ...	...	4	20
Sandalwood—			
To Provincial ports ...	...	.....	6
Teak railway keys—			
To Bombay, Bombay ...	Cwt.	1,628	5,236
" Provincial ports ...	"	514	1,936
Total ...		2,142	7,172
Wooden sleepers—			
To Bengal, Calcutta ...	Cwt.	15,157	43,849
" Bombay, Bombay ...	"	30	78
" Madras, Madras ...	"	16,603	40,630
Total ...		31,790	84,557
Manufactures of—			
To France ...	...	.....	240
" Germany ...	...	.....	240
" Malta ...	...	.....	828
" Egypt ...	...	.....	5,771
" Mauritius ...	...	.....	50,573
" Straits Settlements ...	...	.....	17,217
" Bengal, Calcutta ...	...	.....	58,044
" Madras, other ports ...	...	.....	439
" Provincial ports ...	...	.....	31,868
Total ...		.....	1,65,240
Gums and Resin—			
Cutch and gambier—			
To Provincial ports ...	...	31	530
Lac—			
Stick—			
To Provincial ports ...	Cwt.	.....	.....
Oil—			
Wood—			
To Bengal, Calcutta ...	Gallons	1,151	800
" Madras, Madras ...	"	752	600
" Other ports ...	"	60	50
" Provincial ports ...	"	375	280
Total ...		2,338	1,730

APPENDIX G.

Summary of Revenue of the different Divisions of the Tenasserim Circle for the year 1891-92.

Budget heads—revenue	Kado	Salween-Attaran.	West Salween.	Tavoy.	Mergui.	Total.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I.—Timber and other Produce removed from the Forests by Government Agency—						
(a) Timber	16,121 9 0	2,21,220 6 10	36,909 7 6	2,873 9 11	.	2,77,125 1 3
(b) Firewood and charcoal	.....	.....	....	.. ..	.	.
(c) Bamboos	.....	.....		. ...	...	
(d) Sandalwood	.....	. .	.....	....	.	... .
(e) Grass and other minor produce	...	....	...	. ....	..	
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—						
(a) Timber	11,842 1 9	45,766 12 6	1,219 6 0	9,607 0 0	3,061 4 9	71,496 9 0
(b) Firewood and charcoal	18 0 0	206 0 0	..	... ..	29 8 0	253 8 0
(c) Bamboos	788 11 1	101 13 0	. ..	152 12 0	15 5 0	1,058 9 1
(d) Grazing and fodder grass		.....	....	10 0 0		10 0 0
(e) Other minor produce	20 0 0	246 0 0	...	1,941 0 0	4,912 12 0	7,119 12 0
III.—Drift and Waif Wood and Confiscated Forest Produce	58,610 6 0	252 13 0	. ..	538 2 5	100 0 0	59,501 5 5
IV.—Revenue from Forests not managed by Government—						
(a) Duty on foreign timber and other forest produce	2,14,992 0 3	. . .	. ....	.....		2,14,992 0 3
(b) Revenue from shared and private forests	.....	.....	.....	.....	....	.....
V.—Miscellaneous—						
(a) Fines and forfeitures	2,386 8 0	5,885 0 0	10 0 0	.. .	... ..	8,281 8 0
(b) Refunds	135 8 0	104 3 5	24 0 0	0 6 0	0 2 0	264 3 5
(c) Other sources	9,025 8 0	626 10 3	71 0 0	447 8 0	327 1 3	10,497 11 6
Total	3,13,940 4 1	2,74,409 11 0	38,233 13 6	15,570 6 4	8,446 1 0	6,50,600 3 11

APPENDIX G.

Summary of Expenditure of the different Divisions of the Tenasserim Circle for the year 1891-92.

Budget head—expenditure.	Agency.	Kado.	Salween-Attaran.	West Salween.	Tavoy.	Mergui.	Total.
A.—CONSERVANCY AND WORKS.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I.—Timber and other Produce removed from the Forests by Government Agency	1,005 12 0	9,188 14 5	1,20,239 4 0	23,687 14 3	3,890 3 1	.....	1,58,011 15 9
(a) Timber	.....	.....	.....	.....	.....	.....	.....
(b) Firewood and charcoal	...	.....	.....	.....	.....	.....	.....
(c) Bamboos	.....	.....	.....	.....	.....	.....	.....
(d) Sandalwood	.....	.....	.....	.....	.....	.....	.....
(e) Grass and other minor produce	.....	.....	.....	.....	.....	.....	.....
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers	.....	1,104 0 0	1,512 2 2	68 0 0	.....	73 4 2	2,757 6 4
III.—Drift and Waif Wood and Confiscated Forest Produce	...	28,103 11 2	.....	.....	13 13 0	5 8 0	28,123 0 2
IV.—Revenue from Forests not managed by Government—							
(a) Duty on foreign timber and other forest produce	.	6,540 4 9	.....	.....	.....	.....	6,540 4 9
(b) Revenue from shared and private forests	.....	.....	.....	.....	.....	.	.....
V.—Rent of Leased Forests and Payments to Shareholders in Forests managed by Government.	.....	.....	.....	.....	....	.....	.....
VI.—Live-stock, Stores, Tools and Plants—							
(a) Purchase of cattle	.....	.....	.....	.....	.....	.....	.....
(b) Feed and keep of cattle	1,642 4 4	324 0 0	1,630 9 11	312 2 0	...	...	3,909 0 3
(c) Purchase of stores, tools and plant	216 10 0	182 14 0	948 0 0	322 6 0	58 13 1	65 14 3	1,794 9 4
VII.—Communications and Buildings—							
(a) Roads and bridges	6 12 0	...	.....	.....	.....	.....	6 12 0
(b) Buildings	240 0 0	1,069 8 0	75 4 0	.....	6 10 5	350 14 3	1,742 4 8
(c) Other works	.....	149 8 0	4 8 0	.....	.....	.....	154 0 0
VIII.—Demarcation, Improvement and Extension of Forests—							
(a) Demarcation	...	...	704 6 2	.....	4 10 8	.....	709 0 10
(b) Compensation for lands and rights	...	...	...	.....	.....	.....	.....
(c) Survey and working plans	.....	.....	21,884 1 3	.....	.....	.....	21,884 1 3
(d) Sowing and planting	...	.....	5,062 4 10	4,785 6 3	.....	853 12 0	10,701 7 1
(e) Protection from fire	.....	.....	4,554 10 0	1,999 4 0	.....	.....	6,553 14 0
(f) Other works	....	.....	.....	.....	.....	.....	.....
IX.—Miscellaneous—							
(a) Refunds	....	30 0 0	24 0 0	.....	.....	....	54 0 0
(b) Law charges	...	158 5 6	17 0 0	..	.....	...	175 5 6
(c) Other charges	130 13 0	303 4 0	18 1 6	2 4 0	2 11 0	28 8 0	485 9 6
Total A.—Conservancy and Works	3,242 3 4	47,154 5 10	1,56,674 3 10	31,177 4 6	3,976 13 3	1,377 12 8	2,43,602 11 5
B.—ESTABLISHMENT.							
I.—Salaries—							
(a) Conservators	13,210 11 5	.....	.....	.....	.....	.....	13,210 11 5
(b) Superior officers	1,400 0 0	7,934 3 5	16,250 0 0	8,300 0 0	2,212 8 0	1,087 8 0	37,184 3 5
(c) Subordinate forest and depôt establishments	1,596 0 0	7,605 6 0	4,915 0 0	1,080 0 0	1,389 3 2	1,299 0 0	17,884 9 2
(d) Office establishment	8,058 0 0	6,081 0 0	891 0 0	651 0 0	994 1 0	506 0 0	17,181 1 0
(e) Deputation and special allowances	1,104 9 8	1,200 0 0	2,433 5 4	1,134 10 8	405 0 0	225 0 0	6,562 9 8
II.—Travelling Allowances—							
(a) Conservator	2,007 1 5	.....	.....	.....	...	.....	2,007 1 5
(b) Superior officers	390 0 0	2,076 4 0	2,162 8 0	1,258 2 0	68 2 0	614 2 9	6,569 2 9
(c) Subordinate forest and depôt establishments	279 7 3	593 9 2	1,079 2 6	58 6 3	130 0 0	.....	2,140 9 2
(d) Office establishments	417 8 0	53 0 0	63 10 0	27 0 0	.....	129 8 0	690 10 0
III.—Contingencies—							
(a) Stationery	.....	.....	.....	.....	.....	.....	.....
(b) Carriage of tents and records	32 0 0	144 12 0	151 14 0	127 0 0	.....	.....	455 10 0
(c) Rents, rates, and taxes	56 7 3	38 2 0	.....	.....	.....	0 4 9	94 14 0
(d) Pay of police guards	...	.....	.....	.....	.....	.....	...
(e) Official postage	90 0 0	84 13 6	58 1 0	18 0 0	24 15 0	12 14 0	288 11 6
(f) Sundries	437 3 0	96 9 0	277 5 4	69 0 0	104 1 8	56 3 4	1,040 6 4
Total B.—Establishments	29,079 0 0	25,907 11 1	28,281 14 2	12,723 2 11	5,387 14 10	3,930 8 10	1,05,310 3 10
Grand Total of all Expenditure	32,321 3 4	73,062 0 11	1,84,956 2 0	43,900 7 5	9,364 12 1	5,308 5 6	3,48,912 15 3

APPENDIX H.

TENASSERIM CIRCLE.

List of persons who imported 1,000 logs and more of Teak Timber in 1891-92.

No.	Name.	Number of logs.
1	Maung Shwe O	12,892
2	Ko Lu Galè	5,652
3	Ko Tha Nyin	4,583
4	Messrs. The Bombay Burma Trading Corporation, Limited	3,394
5	Messrs. Hadji Mahomed Usoof and Co.	2,678
6	Ko Pôn	2,461
7	Ko Kyaw La	2,136
8	Ma Htaw	1,991
9	Kyaungtaga Kyan	1,845
10	Maung Nyô	1,827
11	Ko Na Auk	1,508
12	Ko Kyè	1,445
13	Ko Mo	1,423

APPENDIX I.

TENASSERIM CIRCLE.

List showing the names of the Principal Exporters of Teak from the 1st April 1891 to 31st March 1892.

Name of firm.	Tons.	Remarks.
Babu Bullub Dass	11,094	There were in all 73,467 tons of timber shipped from this port by Government, petty shippers, chetties, &c.
Messrs Ferdinand Foucar Brothers and Co.	7,872	
Babu Bhugwan Dass, Rai Bahadur	7,313	
Messrs. The Bombay Burma Trading Corporation, Limited	6,275	
Messrs. T. D. Findlay, Bodeker and Co.	6,098	
Babu Memraj Murlidhur	4,270	
Babu Goridut Bhagala	3,171	
Messrs. Steel Brothers and Co., Limited	1,962	
C. D Beenken	1,858	
Messrs. Abdul Majid Brothers and Co.	1,825	
Messrs Mirza Abdul Hussain and Co.	1,703	
Babu Galabraj Bogala	1,527	
Messrs. Aga Syed Abdul Hussain and Co.	1,186	
A. B. Crisp and Co.	1,008	

APPENDIX J.

TENASSERIM CIRCLE.

Statement showing the Sale Prices of Teak Timber at Home during each month for the year 1891-92.

Month.		Sale price of timber per ton (average).		Freight per ton.	Remarks.
		From	To		
		£ s. d.	£ s. d	£ s. d.	
April	1891	9 0 0	10 0 0	0 40 0	
May	"				
June	"				
July	"	9 10 0	10 10 0	0 40 0	
August	"	9 10 0	10 10 0	0 42 6	
September	"	9 10 0	10 10 0	0 45 0	
October	"	10 0 0	11 0 0	0 42 6	
November	"	10 0 0	11 0 0	0 42 6	
December	"	10 10 0	11 10 0	0 45 0	
January	1892				
February	"				
March	"	10 10 0	11 10 0	0 42 6	

APPENDIX J (1).

TENASSERIM CIRCLE.

Statement showing the Market Rates of Teak Timber in the Indian Markets for the year 1891-92.

Month.	Bombay.				Calcutta.				Remarks.
	Squares.		Scantlings.		Squares.		Scantlings.		
	From	To	From	To	From	To	From	To	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
April 1891									
May "									
June "							75		
July "									
August "	50	65	60	80	60	70		90	
September "									
October "									
November "									
December "							70		
January 1892									
February "									
March "	55	70	65	85					

APPENDIX K.

PEGU CIRCLE.

Selling Rates in the Home Market for 1891-92,—Churchill and Sims.

		£. s. d.		£. s. d.
April	1891	8 10 0	to	14 0 0
May	"	8 10 0	to	14 0 0
June	"	8 0 0	to	14 0 0
July	"	8 0 0	to	14 0 0
August	"	8 0 0	to	14 0 0
September	"	8 0 0	to	14 0 0
October	"	8 10 0	to	14 0 0
November	"	8 10 0	to	14 0 0
December	"	9 10 0	to	15 0 0
January	1892	9 10 0	to	15 0 0
February	"	9 10 0	to	15 0 0
March	"	10 10 0	to	15 0 0

APPENDIX L.

PEGU CIRCLE.

Annual Return of Jungle Woods and Bamboos passed at the Government Timber Depôt and Pasundaung Revenue Station from 1st April 1891 to 31st March 1892.

Description of timber.		Logs.	Total.	Remarks.
Jungle wood ...	In	972	5,517	Sold in the market at Rs. 14 A. 2 P. 2 per log.
	Pyinkado	70		Ditto 2 0 0
	Thayet	2,718		Ditto 7 0 10
	Firewood	1,757		Ditto 1 3 1
Bamboos ...	Myin	1,397,200	1,638,100	Sold in the market at Rs. 127 A. 13 P. 2 to Rs. 182 A. 9 P. 9 per 10,000
	Kyathaung	187,500		Ditto 300 0 0 to 425 1 1
	Tin	46,400		Ditto 335 2 0 to 438 9 2
	Talagu	7,000		Ditto 400 0 0 to 500 0 0
	GRAND TOTAL .	...	1,643,617	

APPENDIX M.

PEGU CIRCLE.

Averages of Sales at the Rangoon Central Depôt, 1891-92.

		Sale.	Rs. A. P.	
April	1891	XIV	43 9 8	per ton.
May	"	I	50 15 6	
June	"	II	45 12 0	
July	"	III	48 14 5	
		IV	42 14 8	
August	"	V	44 0 0	
September	"	VI	46 8 5	
October	"	VII	52 8 8	
November	"	VIII	43 5 1	
		IX	50 9 7	
December	"	X	55 3 6	
January	1892	XI	53 2 4	
February	"	XII	62 6 11	
		XIII	53 2 10	
March	"	XIV	38 15 8	

APPENDIX N.

Abstract statement of the transactions of the Rangoon Depôt on account of each Division during 1891-92.

Division.	Balance on 1st April 1891.				Arrivals during the year.				Sales and disposal during the year.				Balance on 31st March 1892.			
	Logs and scantlings.				*Logs and scantlings.*				*Logs and scantlings.*				*Logs and scantlings.*			
	Teak.	Teak drift.	Other woods.	Other woods drift.	Teak.	Teak drift.	Other woods.	Other woods drift.	Teak.	Teak drift.	Teak woods.	Other woods drift.	Teak.	Teak drift.	Other woods.	Other woods drift.
Thayetmyo	...	...	...	...	379	126	...	...	10	126	...	...	369	...	...	...
Prome	1,417	...	...	...	1,475	187	...	...	1,671	...	...	...	1,221	187	...	...
Tharrawaddy	13,070	...	...	...	18,246	...	2	...	13,991		...	...	17,335	...	2	...
Rangoon	5,341	...	55	...	4,520	216	108	26	5,025	202	128	13	4,836	14	35	13
Toungoo	2,821	...	...	...	9,972	833	...	...	9,652	...	...	...	3,141	833	...	...
Shwegyin	...	...	...	...	780	1,134	...	...	597	134	...	...	183	1,000	...	...
Western	...	...	..	...	...	482	...	...	...	...	..	...	...	482	...	...
Agency	42	114	...	...	...	618	...	5	42	660	...	...	...	72	...	5
Total ...	22,691	114	55	...	35,372	3,595	110	31	30,988	1,122	128	13	27,085	2,588	37	18

APPENDIX O.

PEGU CIRCLE.

Statement showing proposed Plan of Operations and Work effected.

Division.	Operations	
	Proposed.	Done.
THAYETMYO	Girdling of 500 teak trees	500 trees girdled in Myedè reserve.
	Extraction of 1,550 teak logs by Government agency .	3,789 logs extracted
	Demarcation of Onhuèzan and Thègôn	Not carried out, settlement not being completed.
	Repairs to boundaries of reserves	Repaired as far as possible.
	Planting of 260 acres teak and cutch taungyas	400 acres planted.
	Weeding of 114 acres old teak and cutch taungyas ...	90 acres weeded.
	Fire-protection of Tindaw and East Yoma reserves ...	Carried out as far as possible.
	Inspection of plantations and revenue stations ...	Ditto.
	Improvement by *eclaircie*	Ditto.
PROME ...	Girdling of 500 teak trees	500 girdled in North Nawin.
	Extraction of 2,800 teak logs	2,018 logs extracted.
	Repairs to boundaries of reserves	Carried out excepting those of Shwlè and Tayôkmaw.
	Inspection of plantations burnt in 1891	Inspected.
	Planting teak taungyas	19 acres planted.
	Weeding those of previous years	Carried out.
	Fire-protection	35 acres added to area of last year's.
	Inspection of depôts and revenue stations	16 inspections made in all.
THARRAWADDY ...	Girdling of 8,690 first class trees	6,046 trees girdled
	Extraction of 17,000 logs	18,254 logs extracted.
	Repairs to boundaries of reserves	Chaungmagôn, Thitcho, Kangyi, Taukkyan, Thak-olun and outer boundaries of Yoma block reserves completed.
	Proposals for cutch reserves	Settlement of proposed Myolè reserve pending.
	Inspection of plantations burnt in season 1891	Done.
	Planting 730 acres with teak	Planted and 22½ acres additional with mixed teak and cutch.
	Weeding 6,762 acres teak and 13 acres taungyas	Done.
	Weeding 280 acres regular plantations	10 acres only weeded.
	Planting of teak in 100 acres flowering bamboos	80 acres planted.
	Weeding 2,126 acres of teak sowings	1,203 acres weeded.
	Improvement by *eclaircie*	22,811 acres operated on.
	Erection of plantation boards	Done.
	Fire-protection of usual area with additions to Taungnyo and Hawbin.	Do.
	Maintenance of forest garden	Maintained.
	Removal of obstructions in floating streams	Those in Thônzè, Môkka, Kadin, and Kôn-Bilin streams blasted.
	Cutch experiment in Zigôn	Done.
RANGOON ...	Girdling of 2,450 teak trees	1,854 trees girdled.
	Revision of and repairs to boundaries	Those of Hlaing, Magayi, and Paunglin executed.
	Extraction of 6,350 teak and 300 pyinma logs	4,596 logs extracted.
	Settlement of proposed reserves	Pyinma, Shwèlaung, Kodugwè, and Pyinbôngyi pending.
	Planting of 286 acres teak taungyas	225 acres planted
	Weeding and clearing of plantations	Done to those of recent years in Kyetpugan, Magayi, and Zamayi.
	Repairs to roads and buildings	Done.
	Fire-protection as in previous year	Carried out.
TOUNGOO ...	Girdling of 9,750 teak trees	8,927 girdled.
	Extraction of 9,900 teak logs	9,972 extracted.
	Collection of 5,000 drift logs	837 collected.
	Examination of forests for reserves	Chaungmagôn proposed reserve abandoned.
	Demarcation of reserves	Four newly sanctioned reserves demarcated.
SHWEGYIN	Girdling of 1,000 teak trees	1,106 trees girdled.
	Extraction of 2,299 logs teak	1,510 logs worked out.
	Settlement of proposed reserves	That of Wun, Peinzaha, Baingda, Mayan, and Kawbya pending
	Proposals for new reserves	Submitted for Yenwè, Baingda, and Kawbya.
	Repairs to and inspection of boundaries	Done.
	Weeding of plantations	Do.
	Fire-protection of Kyundaung reserve	Carried out.
	Preservation of banks of Yenwè stream	Do.
	Repairs to buildings and erection of depôt at Imbalwè ...	Do.
	Collection of 3,000 drift logs	1,350 logs collected.
WESTERN ...	Proposals for new reserves	Not submitted.
	Demarcation of sanctioned reserves	Not done, settlement of the Myanaung South reserve not having been completed.
	Extraction of 200 teak logs	125 logs extracted.
	Collection of 750 drift logs	488 collected.
	Inspection of depôts and revenue stations	Done as far as practicable.
	Cutch experiment	In abeyance.

APPENDIX P.

REPORT ON THE EXPERIMENTAL GARDEN (CIVIL SIDE), MERGUI, FOR 1891-92.

New coffee clearings.—Two small plots for planting Liberian coffee were cleared in the dry season and will be planted up during this rains.

2. *Number of Liberian coffee plants.*—The number of Liberian coffee plants at the beginning and close of the year are shown below:

At beginning of year	8,353
At close of year	8,338
Decrease ...	15

due to two deaths among the larger plants and 13 among the smaller ones.

3. *Coffee disease.*—The plants were again attacked by the leaf disease of last year. As the dry season advanced the plants gradually recovered and shook themselves free of the disease, but it appeared again when the rains had properly set in. The result of two years' disease is seen in the very poor condition of the plants and in the crop which was the smallest collected since 1887.

4. *Coffee crop.*—The coffee crop collected during the year amounted to 47·45 viss. This, together with the balance from last year, 31·70 viss, were all, but 6·32 viss, disposed of during the year.

5. *Experiment closed.*—As there seems no likelihood of sanction being accorded to coffee being grown experimentally on a large scale (of 20 or 30 acres) the experiment with this species may be considered as closed, and the future usefulness of the small coffee plot in the Mergui garden will be in its being used as a source of supply for seedlings and seed for free distribution or for sale.

Since received Director's Revenue Department No. 745-47A., dated 21st April 1892.—H. G. B.

6. *Cocoa.*—The number of large cocoa plants remained at four. These are not healthy. The 57 seedlings were reduced to 48. These are strong and healthy and will be put down this rainy season.

7. *Vanilla.*—The vanillerie has recovered itself after the great number of cuttings which had been taken from it. As a result a few flowers came out during February and March and were successfully fertilized by the Forester. Of the cuttings there are now only 201 left, the rest having dried off during the dry season. These have now fairly taken root and are growing very well.

8. *Tea.*—The number of tea plants were reduced to 69. They were removed during the year to another situation on lower ground and near the stream. Since their removal the plants have brightened up and are now looking healthy if still somewhat scraggy.

9. *Pepper.*—This has not been given a fair trial. An acre or thereabouts will be planted up and cultivated properly, a separate account of the receipts obtained and expenditure incurred on it being kept. In this manner it should be shown definitely whether pepper can be made a growing concern or not.

The method of cultivation is the same as that of the betel-vine, and it is hoped, if it can be proved to pay, that the Chinese and Burmese gardeners will generally take to its cultivation. The ground for its cultivation has been prepared and the cuttings will be put down this rains.

10. *Mauritius pineapple.*—The number of these plants which were received from the Deputy Commissioner, Mergui, have been increased by shoots from two to four. One plant fruited last year, but the fruit rotted off before it matured. The other plant fruited this year, but the fruit has not ripened yet.

Fruit very good and flavour excellent.—H. G. B.

11. *Cardamoms.*—The cardamom plants collected in the Tavoy district were sent down to the Mergui garden for experiment: 903 plants were successfully put down: a box of best selected seed was obtained from Mysore and will be put down this rains. The seed obtained up to this (always stated to be best selected) has without exception failed to germinate. The box of seed now about to be tried has been obtained direct from Mysore through the kindness of a Mysore planter. He also at the same time kindly sent instructions as to the best way of putting down the seed as practised in Mysore.

12. *Tobacco.*—Three varieties of tobacco seed were given by the Deputy Commissioner, Mergui, for experiment. The Forester unfortunately mixed the seed and it was not possible to distinguish the different kinds when the plants came up. In all 53 lbs. of tobacco leaf were obtained. The leaves still seem green and not quite cured. The Burmans do not care for it as it is too mild and is wanting in the harsh flavour of the country tobacco. These are qualities which, recommending it to the taste of European smokers, condemn it to that of the natives.

13. *Bread-fruit.*—Some bread-fruit seed were obtained and put down: 43 seedlings have come up and are doing well.

14. *Receipts and expenditure.*—The receipts during the year amounted to Rs. 193-9-3 as follows:—

	Rs.	A.	P.
Sale of coffee	171	10	3
Betelnuts	21	0	9
Rambosteens	0	14	3
Total	193	9	3

The expenditure amounted to Rs. 819-1-6.

TAVOY:
The 7th June 1892.

C. INGRAM,
Extra Assistant Conservator of Forests,
South Tenasserim Division.

Endorsement by H. G. BATTEN, Esq., Deputy Commissioner, Mergui,—dated the 10th June 1892.

COPY of the above forwarded to the Commissioner, Tenasserim Division.

From D. M. MACKAY, Esq., Deputy Commissioner, Amherst, to the Conservator of Forests, Tenasserim Circle,—No. 1712-18—14, dated the 17th June 1892.

I HAVE the honour herewith to forward the Annual Report of the Deputy Conservator of Forests, Kado Division.

The cases instituted throughout the year were all carried to a successful issue. Of these 113 cases were disposed of by Mr. Weston in his capacity as a Magistrate. In one important case there was an appeal; it was dismissed. Two persons were successfully prosecuted under the Indian Penal Code—one for personating a Forest Officer and cheating and one for aiding and abetting.

2. Timber worked out by purchasers of the reserved kind was 237·76 tons and of the unreserved kind 1,908 tons in excess of last year, and the revenue was exceeded by Rs. 4,118-10-0.

3. Drift operations yielded Rs. 58,610, or Rs. 849 less than last year, which was abnormal.

4. The duty on foreign timber was Rs. 29,453 more than in the previous year.

5. A perusal of Chapter V shows that the year was very successful, the surplus being Rs. 2,40,878, and compared with previous year the revenue has been steadily and materially increased.

6. The remarks on the steam-launch *Masan* are worthy of notice.

7. A number of additions, changes, and corrections were made in the forest rules and forms of licenses on the representation of Mr. Weston. Proposals for altering certain rules were submitted and errors in the last issue of the Burma Forest Act, 1881, pointed out by him.

8. The work of the Kado division is evidently heavy and has been carried out successfully by Mr. Weston.

9. In conclusion I would quote Captain Johnson, my predecessor. "Mr. Weston has thoroughly mastered his special work, and every year since his arrival there has been a steady increase of revenue, the most marked this year from Rs. 2,06,339 in 1891-92 to Rs. 3,40,870. He is a very careful Magistrate, and his special cases I have never yet had occasion to interfere with."

From Colonel H. R. SPEARMAN, Commissioner of the Tenasserim Division, to the Conservator of Forests, Tenasserim Circle,—No. 3033-631, dated the 15th June 1892.

I HAVE the honour to forward the annual report of the Tenasserim Forest Circle, West Salween Division, for the year 1891-92, together with the remarks of the Deputy Commissioner, Shwegyin. I forward this without remarks in order to save time.

From Colonel H. R. SPEARMAN, Commissioner of the Tenasserim Division, to the Conservator of Forests Tenasserim Circle,—No. 3018-631, dated the 14th June 1892.

I HAVE the honour to forward the Report on the Tenasserim Forest Circle, West Salween Division, for the year 1891-92. The report is forwarded without remarks in order to save time.

Remarks by W. N. BAINES, Esq., District Superintendent of Police, in charge Salween District.

THERE are complaints from all sides about the scarcity of taungya lands.

Endorsement by W. N. BAINES, Esq., District Superintendent of Police, in charge Salween District,—dated the 10th June 1892.

SEEN and forwarded to Commissioner, Tenasserim Division.

Remarks by D. WILSON, Esq., Officiating Deputy Commissioner, Shwegyin, in forwarding the Annual Report for 1891-92 of the Deputy Conservator of Forests, West Salween Division.

THE report, dated the 26th May 1892, and forwarded with a letter 35-19, dated the 6th June 1892, reached Shwegyin 10th June 1892, and is sent on to the Commissioner 10th June 1892, because the Deputy Conservator says in his letter: "The Conservator of Forests informs me that the latest day for him to commence the compilation of his report from the Divisional Reports received through the Deputy Commissioner and the Commissioner is 15th June 1892."

2. *Chapter II.*—Third paragraph concerning pyinma is as it stands hopelessly obscure, possibly through a copyist's blunder. If there were time, I would delay forwarding the report to have this corrected.

3. *Chapter III.*—Proviso 4, Rule 8, was intended, I understood, to be made use of primarily for the protection of fish and not (as seems to be supposed) as an easy means of extending the area of reserved forests by a stroke of the pen. I have not yet seen any occasion to use this proviso in this district, and as the district is about to be cadastrally surveyed I consider it would be premature for me to issue at present any notice under the proviso. For this reason no streams in this district have been notified as yet.

4. *Chapter III (conclusion).*—The Kyauksarit Yegyaw is in need of improvement for the readier extraction of timber; but it should be taken in hand by the Forest Department. I would not be justified in spending District Cess money upon it. The Bombay Burma Company did something to improve it a year or two ago. Except for extracting timber, it is of little use.

From T. A. HAUXWELL, Esq., Deputy Conservator of Forests, Salween-Attaran Division, to the Conservator of Forests, Tenasserim Circle (through Deputy Commissioner, Amherst,—No. 80-18, dated the 8th June 1892.

I HAVE the honour to forward herewith the Annual Report of the Salween-Attaran Division for the year 1891-92.

Endorsement by D. MACKAY, Esq., Deputy Commissioner, Amherst,—dated the 17th June 1892.

TRANSMITTED.

Endorsement by Colonel H. R. SPEARMAN, Commissioner of the Tenasserim Division,—No. 8106-631. dated the 22nd June 1892.

FORWARDED.

Memorandum of the Deputy Commissioner on the Annual Report of the Deputy Conservator of Forests, Attaran Agency Division.

THERE were during the year 143 breaches of forest rules involving 152 persons; of these 122 were compounded for Rs. 5,885 by the Divisional Officer, and convictions were obtained in 11 out of the remaining 21.

2. There was an increase in the extraction of timber of thingan 962 tons, of kaunghmu 377 tons, of thitka 180 tons, besides which, owing to the reservation of kanyin 2,755 logs already felled in the forests reserved to Government, 1,439 were sold in Attaran for Rs. 2,714 and 1,316 in East Salween for Rs. 4,312-12-0.

3. There was an increase in the extraction of timber of the unreserved kinds of 2,171 logs or 2,087 tons owing to a certain demand for railway sleepers.

4. The increase in revenue on account of timber extracted by Government agency was Rs. 10,657, and of Rs. 21,976 on account of timber extracted by consumers and purchasers. Compositions in cases of bringing timber out under time-expired licenses increased by Rs. 5,300, being Rs. 1,316 in 1890-91 against Rs. 6,616 in 1891-92.

5. Orders were issued to Township Officers, thugyis, and ywathugyis on the subject of protection of reserves from fire; they were sent copies of Rule 76 of the Forest Rules, wherein their duties are defined.

6. My predecessor Captain Johnson records that he knows nothing of the work of the Deputy Conservator, as he never approaches him officially.

Marginal Notes and Endorsements by Deputy Commissioners and Commissioners on the Divisional Annual Forest Reports of the Pegu Circle for the year 1891-92.

Thayetmyo Division.

Endorsement by D. J. A. CAMPBELL, Esq., Deputy Commissioner, Thayetmyo,—dated the 2nd May 1892.

FORWARDED.

Note by D. NORTON, Esq., Commissioner of the Irrawaddy Division, on paragraph 124, Chapter VI, regarding the work of subordinate Forest Establishments.

I AGREE. Bribery and corruption seem to have been rampant, and the ya cultivators had a bad time of it. The ordinary villager cannot see any difference between compounding for a forest offence and bribing a Forest Officer.

Endorsement by D. NORTON, Esq., Commissioner of the Irrawaddy Division,—Revenue Department No. 1945-3F.—4, dated the 7th May 1892.

FORWARDED.

Prome Division.

Endorsement by Major C. A. CRESSWELL, Deputy Commissioner, Prome,—dated the 21st April 1892.

FORWARDED.

Remarks by Colonel G. A. STROVER, Commissioner of the Pegu Division,—dated the 23rd April 1892.

FOREST operations appear to have been fairly successful in the Prome district during the year of report. The early cessation of the rains prevented the extraction of timber to the extent anticipated. The financial results compare favourably, however, with the previous year. Offences against the forest laws were numerous, but they are reported as mostly of a petty nature.

The office of the Deputy Conservator of Forests was inspected by me in December 1891. I was by no means influenced with its appearance. The registers were fairly well kept, but the office is not clean and tidy. The Deputy Conservator had been away on tour for some time. The head clerk complained of overwork.

Tharrawaddy Division.

Endorsement by Lieutenant A. B. PRITCHARD, Officiating Deputy Commissioner, Tharrawaddy,—No 798-1X.—9, dated the 5th May 1892.

FORWARDED.

Remarks by Colonel G. A. STROVER, Commissioner of the Pegu Division,—dated the 7th May 1892.

FOREST operations in this division appear to have been very successful during the year of report. The Deputy Conservator of Forests has furnished and kept a full and interesting account of the year's work. The office was inspected by me during the year. I found it in good order, but accommodation is too limited. The registers I found well kept.

Endorsement by Colonel G. A. STROVER, Commissioner of the Pegu Division,—dated the 7th May 1892.

FORWARDED with report and returns to the Conservator of Forests, Pegu Circle.

Rangoon Division.

Endorsement by J. K. MACRAE, Esq., Deputy Commissioner, Hanthawaddy,—dated the 28th May 1892.

FORWARDED to the Deputy Commissioner, Pegu, with 13 forms.

Endorsement by J. S. D. FRASER, Esq., Deputy Commissioner, Pegu,—dated the 30th May 1892.

RECEIVED and forwarded on the 30th May 1892.

Remarks by Colonel G. A. STROVER, Commissioner of the Pegu Division,—dated the 31st May 1892.

SEEN and forwarded to the Conservator of Forests, Pegu Circle. Forest operations appear to have been successfully conducted during the year of report.

Toungoo Division.

Note by the Commissioner, Tenasserim Division, dated the 21st May 1892, on paragraph 1, Chapter I, on the proposed Chaungmangè reserve.

IT is very evident that the proposed reserve was not inspected until after the proclamations were sent out.

On paragraph 8, Chapter III (regarding mahogany plants), "but only living, not thriving."

On yield and working, Chapter IV (Outstanding of Rs. 15,631-12-0 against contractors).—This seems to me to be a very large outstanding, but the Conservator will know much better than I do."

On girdling, Chapter IV (girdling of 8,927 trees of 9,750 sanctioned).—Is this good work?

Notes on Chapter VI, General, by G. M. S. CARTER, Esq., Deputy Commissioner, Toungoo,—dated the 17th May 1892.

IT is unfortunate that Mr. Hoghton for a second time left the district just as this report was due. During the year under report I visited most of the reserves with him. I think the work was well carried out by the executive staff throughout the year.

Note by Colonel H. R. SPEARMAN, Commissioner of the Tenasserim Division,—dated the 21st May 1892.

THE changes in the staff were unfortunate but unavoidable, and the officer who signs this is not responsible for its meagreness, which at any rate relieves me of some trouble in making remarks.

Shwegyin Division.

Remarks by D. WILSON, Esq., Deputy Commissioner, Shwegyin,—No. 782-10, dated the 3rd June 1892.

1. THE report on the new reserves will be submitted in a few days now. No appeals were preferred from any of the orders passed, and I delayed the report in the hope that some of the taungya-cutters we had to make provision for might be ultimately persuaded to settle this season in the plains. The local Government sanctioned the offer of very good terms to taungya cultivators settling in the plains. In respect of these individuals, however, persuasion has failed, but in this connection it should be pointed out that the whole area in Shwegyin district under taungya cultivation has decreased this year in comparison with last year, while population and the area under paddy-land have both increased.

2. There is still room for many more reserves in this district, and no time should be lost in preparing proposals. In settling the Wunpein and Zaha, Baingda, Mayan, and Kawliya reserves this year, it was necessary to make only a few and trifling alterations in the boundaries originally proposed.

I concur.—H.R.S.

3. The increase in the forest revenue is satisfactory, and it will be much greater as soon as the Yinwè, Baingda, Kawliya, and other streams are properly cleared. The Deputy Conservator seems fully alive to the importance of this. The clearing of these streams improves the cultivated land in the vicinity.

4. It must be remembered that in last year's report much was said about fisheries, upon which I could only remark enquiries were pending. It has now been definitely ascertained there are not *any* leased fisheries which interfere with forest work. The only artificial obstruction the Deputy Conservator brought to my notice was quite illegal, and the mere threat of proceedings was sufficient to secure its removal.

Note by Colonel H. R. SPEARMAN, Commissioner of the Tenasserim Division, on paragraph 9, Chapter III (Conviction and imprisonment of Maung Kya Bu for breach of contract).

"Must have been, I should suppose, a civil case."

Endorsement by Colonel H. R. SPEARMAN, Commissioner of the Tenasserim Division,—No. 2905-631, dated the 8th June 1892.

FORWARDED.

Western Division.

Note by G. L. WEIDEMANN, Esq., Deputy Commissioner, Bassein, on Chapter VI,—dated the 14th April 1892.

DURING the few months that I have been in charge of the Bassein district during the year I know of no important forest operations special to the district.

The new tax on bamboos, &c., seems to work smoothly so far. It would not answer, I suppose, for the Deputy Conservator to write a separate report for each district under his charge.

Endorsement by G. L. WEIDEMANN, Esq., Deputy Commissioner, Bassein,—dated the 14th April 1892.

FORWARDED to the Deputy Commissioner, Ma-ubin.

Endorsement by S. H. T. DE LA COURNEUVE, Esq., Deputy Commissioner, Ma-ubin,—dated the 19th April 1892.

FORWARDED to the Deputy Commissioner, Henzada.

Endorsement by Major J. BUTLER, Deputy Commissioner, Henzada,—dated the 26th April 1892.

FORWARDED to the Commissioner, Irrawaddy Division.

Remarks, dated the 3rd May 1892, by D NORTON, Esq., Commissioner of the Irrawaddy Division, on paragraph 8, Chapter I (Proposed South Myanaung reserve)

THESE papers are now before me, and I hope to get this matter, which has been pending for years, disposed of soon.

Endorsement by D NORTON, Esq, Commissioner of the Irrawaddy Division,—No 1888-8F.—4, dated the 4th May 1892

FORWARDED It would have been interesting to have read more than is contained in this report about the tax on bamboos and canes

G. B C. P O—No 3831, B S, 18-8-92—290